A W. R. C. Smith publication — FIFTY CENTS

Textile Industries

Formerly "COTTON"

OCTOBER, 1958

PREVIEW OF THE GREENVILLE SHOW
pages 125-150

A complaint plan that works
page 151

Mill engraving
page 154

Making cotton-dynel bulk yarns
page 157

One-step nonwoven range
page 160

Urge loom fixers to ask advice
page 167

Dyeing wool-synthetic blends
page 174

Knitting section
Pages 197-207

New product parade

Comp

PRESENTING
AT THE GREENVILLE SHOW

Bahnson

AIR-O-MATION

AIR AT WORK FOR INCREASED PROFITS

CONDITIONS • COLLECTS • CLEANS • CONVEYS

INTRODUCING
ADMC
UTOMATIC DOFFING AND
MATERIAL CONVEYING
Important new development
for the textile industry

SEE IT ALL WORKING
IN BOOTH 830-831

BAHNSON
COMPANY
Winston-Salem, N.C.

University Microfilms
313 No First St
Ann Arbor Mich 4

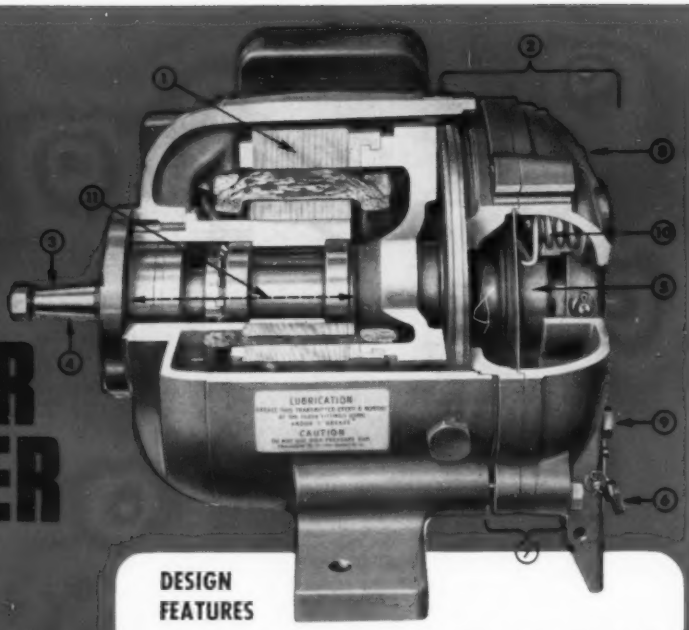
NEXT ISSUE: Special section on Wash-and-Wear

THE DEPENDABLE DIEHL

"BA" POWER TRANSMITTER

For Draper Looms

Exclusive new design features mean . . . *consistent* quality production . . . *peak* operating efficiency . . . minimum maintenance, labor and costs!

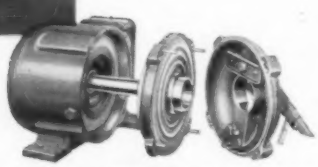


DESIGN FEATURES

*1. High inertia inverted motor provides "stored energy" for smooth, fast starts and positive picking (maximum inertia with minimum size) . . . prevents regeneration.

STREAMLINED FRAME
Easy to clean. Roomy terminal box.

KINETIC BRAKING ACTION
(See Feature 6)



CLUTCH-ACTUATING BEARING—A strikingly new and improved method of mounting. (See Feature 5)

CLUTCH-BRAKE ASSEMBLY—Improved, simplified. Readily removable as a unit. (See Feature 2)

The original and only loom power transmitter . . . plus many outstanding design and construction features never before incorporated in a loom drive!

Over 40,000 Diehl Power Transmitters have been in continuous operation on DRAPER LOOMS—*most of them more than six years!* The "BA" Power Transmitter is even *more* compact, *more* streamlined, *more* efficient and *more* easily installed and serviced than its famous predecessor.

It's an inverted-type high inertia motor combined with a fast, positive clutch-brake mechanism. Note the exclusive design features—the clutch-actuating bearing mounting . . . the kinetic braking action . . . the unitized clutch-brake assembly. These important advancements mean increased production . . . improved cloth quality . . . lowered operating costs . . . fewer shutdowns. *Write, wire or phone today for full information.*

plus these outstanding Features

*2. **CLUTCH-BRAKE ASSEMBLY**—Improved and simplified for positive action and ease of adjustment. Removes readily as unit for maintenance, without disconnecting motor from loom frame.

3. **PINION**—Free accessibility for installation and maintenance.

4. **SHAFT**—Large diameter, alloy steel, heat treated—assures long life, eliminates need for outboard bearing.

*5. **CLUTCH-ACTUATING BEARING**—New diaphragm mounting for frictionless clutch action, positive radial rigidity of bearing . . . eliminates fretting corrosion . . . means full self-alignment of bearing for maximum life.

*6. **KINETIC BRAKING ACTION**—For rapid, accurate stops. Particularly desirable for center fork detection looms.

7. **CLUTCH AND BRAKE ADJUSTMENT**—Simple and convenient. Provides visible check on brake alignment.

*8. **CLUTCH-SETTING INDICATOR**—Built integral with unit for instantaneous external checking of clutch setting.

9. **SAFETY LATCH**—Built integral with unit. Prevents accidental engagement of clutch.

10. **CLUTCH-LOADING ASSEMBLY**—Internally located, hence tamper-proof.

11. **SHAFT-END BEARINGS**—Arrangement simplified and improved. Two ball bearings and an extra large roller bearing assure maximum life.

** Exclusive feature—patent protected.*

Diehl

DIEHL MANUFACTURING COMPANY

Electrical Division of THE SINGER MANUFACTURING COMPANY

Finderne Plant, SOMERVILLE, NEW JERSEY

BALTIMORE · CHAMBLEE, GA. · CHARLOTTE, N. C. · CHICAGO · CINCINNATI · DETROIT · MILWAUKEE · NEEDHAM, MASS · NEW YORK · PHILADELPHIA

"Knitted Outerwear" . . . from the Wildman Jacquard LH-6

Discriminating people who want both style and quality in a sweater, daily choose knitted fabrics from this versatile machine • The LH-6 will knit plain jersey . . . links and links . . . cross links and links . . . half cardigan . . . 2 or 3 color Jacquard designs . . . self pattern designs — with 2 x 2 or 1 x 1 cuff • Available in fine cuts • For complete technical data, write for bulletin LH-6.

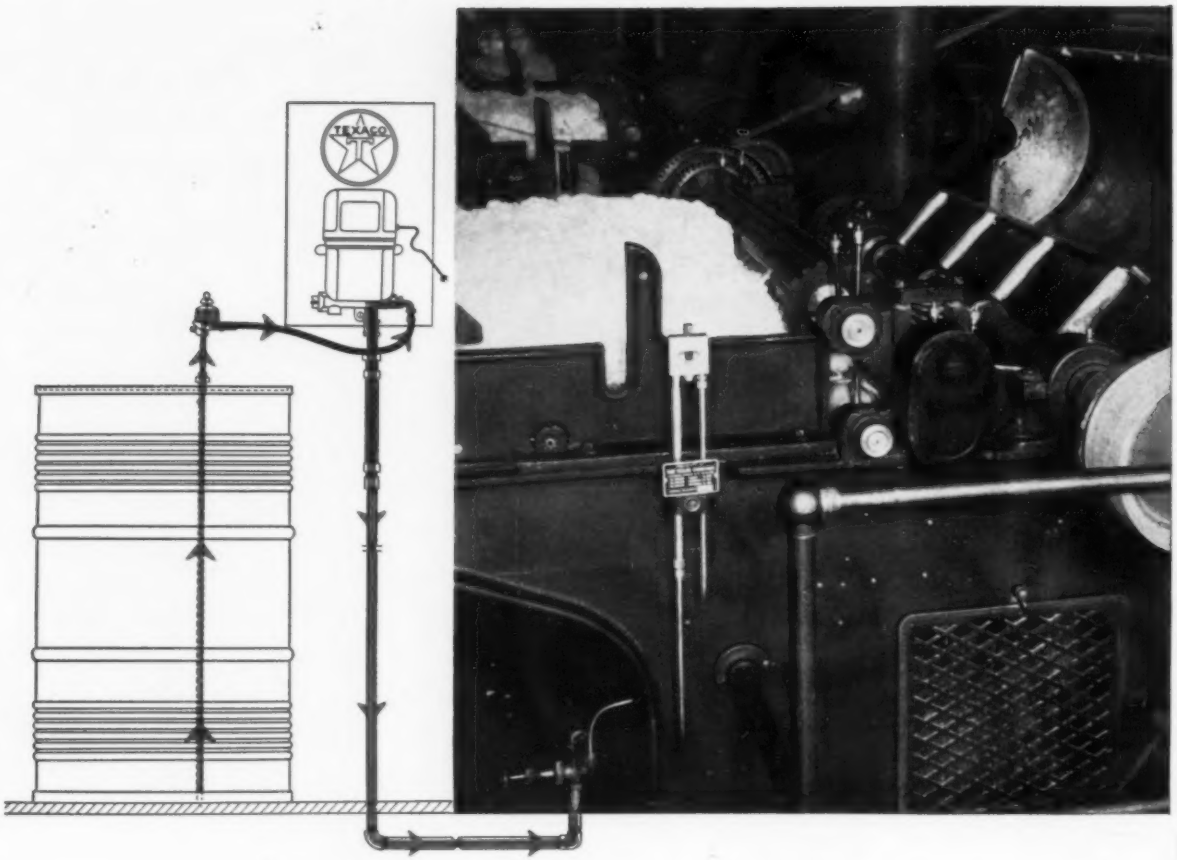
All day long . . . sweaters belong

WILDMAN JACQUARD

a subsidiary of Draper Corporation, Hopedale, Mass.

WILDMAN JACQUARD CO. • 1210 STANBRIDGE STREET • NORRISTOWN, PENNSYLVANIA

Manufacturers of HEMPHILL BANNER Knitting Machines



INCREASE TEXTILE PROFITS

Use Texspray fiber conditioner. You'll get smoother, stronger yarn and fabric

Here's how Texaco Texspray can favorably alter your production picture:

- **It reduces fly and dust so that machines and men operate more efficiently.**
- **It increases the pliability of textile fibers.**
- **It assures more long staple by preventing fiber breakage, thus maintaining full saleable weight.**
- **It reduces static, assures fewer "ends-down" and faster Monday start-ups.**

Texspray may be applied in the picker directly to the fiber surface with a wiping action and treats all fibers uniformly.

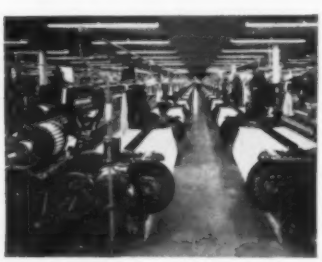
Texspray-ed fabric can be dyed or printed without prior washing. Texspray does not interfere with color values; therefore, its added weight need never be removed.

How to obtain a trial Texspray installation

Just call the nearest of the more than 2,000 Texaco Distributing Plants in the 48 States, or write:

☆ ☆ ☆

The Texas Company, 135 East 42nd Street, New York 17, New York.



Want cleaner cloth?

Lubricate looms—cam surfaces, jacks, slide and connecting rods—with Texaco Stazon. It clings to lubricated parts—does not splatter, creep or drip.

LUBRICATION IS A MAJOR FACTOR IN COST CONTROL

(PARTS, INVENTORY, PRODUCTION, DOWNTIME, MAINTENANCE)

NBP BPA

Textile Industries

Formerly "COTTON"

Vol. 122, No. 10
October 1958

CONTENTS

Copyright 1958 by W. R. C. Smith Publishing Co.

Major articles digested for quick reading on page 4

Greenville Show Preview 125 - 150

What and Whom you will see at the 20th Southern Textile Exposition to be held in Greenville, S. C., October 6 - 10, 1958

Management

Interdepartmental Complaint Plan 151
"What Quality Control Has Done for Us" 156
Supervisor Training—How to Pep It Up 169
Testing Costs Can Be Justified 164

Cotton

What Poor Cotton Bales Cost the Mill 153
How to Make Cotton/Dynel High-Bulk Yarns 157
The Ginner Has His Problems, Too! 171
Dial Gauges Improve Fibrograph 185
Paint the Bobbin Bottom 223
16-Year Card Clothing Life 225

Wool

Fewer Wool Spindles; South Inches Up 159
Dyeing and Finishing Wool-Synthetic Blends 174
Extra Pin Helps W-3 Shipper Motion 219

Knitting

Handling Bulk Cotton/Dynel Knits 157
3 Operations in 1 with Mill-Made Boarder 199
Tips for Using Lurex Metallic Yarn 203
Knitter Hints No. 50 (Greasy Hands) 207

Wet Processing

154 Mill Engraving
166 Mill-Built Range Finishes 312"-wide Goods
174 Dyeing and Finishing Wool-Synthetic Blends
189 $100 a Day Savings in Steam Costs
223 Paper Filter Protects Dye Packages

General and Technical

153 Loom Hub Construction Prevents Slippage
160 Nonwoven Fabrics in One Operation
163 Make Your Safety Meetings More Interesting
167 Encourage Loom Fixers to Ask for Advice
170 A Supervisor Has Nothing to Do
173 325-ft Conveyor Solved a Space Problem
177 Relay Maintenance Cost Cut $5,500 Annually
178 Planning Winder Production
181 Here's a New Carpet Yarn System
193 The Goldbrick Schemes
215 Alloy Loom Part Provides Big Saving
219 Ready for Emergencies? Score Yourself
225 Relay Tester for Random Slub Device
221 Store Cloth in Sliver Cans to Cut Handling

Departments

6 Shorts and Remnants
26 Personal Notes About Men You Know
34 What the Textile Mills Are Doing
40 Suppliers News
109 News in Brief
121 An Executive Views the News in Textiles
123 Future Events
215 How Other Men Manage
227 New Product Parade
253 Helpful Booklets Free

EDITORIAL AND EXECUTIVE OFFICES: 806 Peachtree St., N. E., Atlanta 8, Georgia

George H. Dockray, Editor

J. Frank Guest, *Managing Editor*

Milton C. May, *Associate Editor*, P. O. Box 11015, Charlotte 9, N. C.

Stanley M. Suchecki, *Associate Editor*, P. O. Box 131, New Canaan, Conn.

Jesse W. Ellington, *Associate Editor*

Dorothy D. Eudy, *Assistant Editor*

J. A. Moody, *Production Manager*

H. Redfern Hollins, *Director of Circulation*

John C. Cook, Business Manager & Vice-Pres.

Walter M. Mitchell, Jr., *Advertising Manager*

BUSINESS REPRESENTATIVES

BOSTON—Arthur C. Shaw, *27 Southgate Rd., Wellesley 81, Mass. (Phone: Cedar 5-3648).*

NEW YORK—William K. Hoffman, *58 Euclid Ave., Maplewood, N. J. (Phone: South Orange 2-2484).*

BUFFALO AREA—J. D. Parsons, *39 Atlantic Ave., Cohasset, Mass. (Phone: Evergreen 3-0712).*

PHILADELPHIA—James R. Corgee, *27 E. Windermere Terrace, Lansdowne, Pa. (Madison 6-9145).*

CHICAGO—Richard F. Hanrahan, *333 N. Michigan Ave., Chicago 1, Ill. (Phone: Central 6-6964).*

CLEVELAND—A. E. C. Smith, *P. O. Box 3064, Cleveland 17, Ohio (Phone: Cherry 1-7352).*

CHARLOTTE—W. Cliff Rutland, *Box 102, Gastonia, N. C. (Phone: University 7-7995).*

MIAMI—Ray Rickles, *814 Chamber of Commerce Bldg., Miami, Fla. (Franklin 9-1495).*

LOS ANGELES—Loyd B. Chappell & Associates, *8693 Wilshire Blvd., Beverly Hills, Calif. (Olympia 2-1490).*

SAN FRANCISCO—Fred Jameson, Loyd B. Chappell & Associates, *821 Edinburgh St., San Mateo, Calif. (Diamond 3-8606).*

EUROPE—Harry Becker, *National Provincial Bank Chambers, 15 Gratton St., Altrincham, England.*

TIME SAVER for busy readers

Here is a summary of some of the major articles in this issue

Use it to organize your reading time most effectively

Preview of the Greenville Show 125-150

■ In a special 26-page section, TEXTILE INDUSTRIES gives you a preview of the 20th Southern Textile Exposition, to be held at Textile Hall, Greenville, S. C., October 6-10.

In these pages you'll find an alphabetical list of all the exhibitors, telling you what they'll be exhibiting, what they're showing for the first time (with photographs of many of the new products), whom they'll have on hand to tell you about their products, and where they'll be staying, so that you can get in touch with them during off-hours.

There's also a floor plan and exhibitor list on a separate pull-out, which we suggest you remove and take with you as a handy guide to the Show.

And finally, two pages of pictures and ads from TI's preview of the First Southern Textile Exposition in 1915 point up the progress which the textile industry has seen since southern mill men first went to Greenville.

Interdepartmental complaint plan 151

■ To reduce faulty work to an absolute minimum, there must be a community effort, so to speak, by the supervisors of every department in the mill. One way to help bring this about is a system whereby a department supervisor issues a written complaint whenever another department delivers faulty work to him. The author has found that "when supervisors complain more, customers complain less."

Mill engraving 154

■ Cranston Print Works, Cranston, R. I., has its own staff of mill engravers, which it calls on for sharp reproduction of fine-line patterns. In fact, Cranston's management gives preference to mill engraving, despite its high cost, even in cases where photoengraving would usually be considered satisfactory. One of TI's editors visited the plant recently; his report tells how Cranston's own staff of mill engravers prepare a printing roll.

How to make cotton-dynel high-bulk yarns 157

■ Knitwear made with a blend of cotton and dynel Type 63, controlled high-shrinkage staple fiber, is currently a popular item at retail. This article gives mill-proved techniques for spinning, kn. ing, dyeing, and finishing these blends.

Nonwoven fabrics in one step 160

■ Here are details of a nonwoven fabric range which combines web forming, latex saturating, drying, curing, and winding into one unit. The range is in operation in several of the larger nonwoven producing plants.

Testing costs CAN be justified 164

■ The mill laboratory can't show any tangible production figures, so the lab supervisor is often at a loss to justify the expenditures for the lab's services. The author, supervisor of quality control for a large southern mill, shows how accuracy and reliability of reports can be used as a measure of the value of a laboratory to the mill.

Encourage loom fixers to ask for advice 167

■ Loom fixers are sometimes too proud to ask for help in solving those unusual problems that are always popping up. A veteran loom fixer describes some of his experiences where he asked for and gratefully received assistance in handling situations which arose on his section.

Dyeing and finishing wool-synthetic blends 174

■ It would be difficult to mention a fabric or fabric blend—woven, tricot, or tubular knitted—that could not readily fall into an established finishing routine at Dominion Dyeing & Printing Co., Ltd., Drummondville, Quebec. Here is how Dominion "specializes in diversification," and particularly how wool-synthetic blends are dyed and finished, as reported by a TI editor.

Here's a new carpet yarn system 181

■ A machinery builder in Northern Ireland has taken the wraps off a new spinning system (a combination of the jute and worsted systems) for producing man-made fiber staple carpet yarns for both tufted and traditional carpets. TI's European correspondent describes the system, as it is operating in the machinery builder's pilot mill.

Does 3 operations in one 199

■ A hosiery boarding and form-inserting apparatus built by and in operation at Mauney Hosiery Mills, Kings Mountain, N. C., saves seven cents per dozen in the boarding and transferring operations on men's hosiery. The machine is to be made available to other mills.

COMING NEXT MONTH

■ Probably the textile topic which arouses the most comment—both pro and con—among mill men and consumers alike is wash-and-wear. Next month TEXTILE INDUSTRIES summarizes the current status of this controversial topic in a series of articles which will form the annual special section on wet processing which we publish each fall. In addition to technical discussions of resin finishing, the viewpoints of mill men, retailers, and independent observers will be compared. Watch for it in TI for November.

TEXTILE INDUSTRIES is indexed in the "Applied Science & Technology Index"

TEXTILE INDUSTRIES is published monthly, with an extra issue in November, at 116 E. Crawford St., Dalton, Ga., by W. R. C. Smith Publishing Company, Dalton and Atlanta, Ga., U. S. A. Contents copyright 1958 by W. R. C. Smith Publishing Co. W. J. Rooke, chairman of the board; R. P. Smith, president. Executive and Editorial Offices: 806 Peachtree St., N. E., Atlanta 8, Ga. Subscription Rates: United States and Possessions, $2.00 for one year; Canada, South America, Central America, $2.00 per year; Foreign Countries, $5.00 per year. Entered as second-class matter at the post office, Dalton, Georgia, under the Act of March 3, 1879. Postmaster, send notices by Form 3579 to 806 Peachtree St., N. E., Atlanta 8, Ga.

Photo courtesy Burlington Decorative Fabrics, Burlington Industries, Inc.

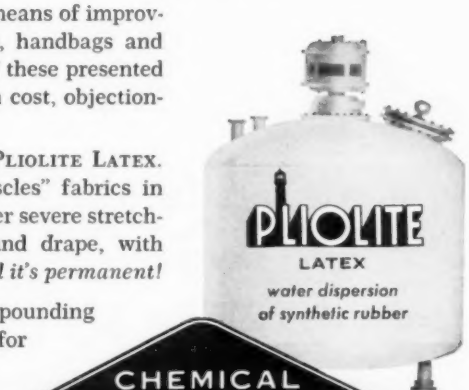
New way to back a winner

Textile manufacturers have looked long and hard for a means of improving the performance of fabrics for upholstery, drapes, handbags and footwear. Many types of backing were tried, but most of these presented new problems—in reduced flexibility and resilience, high cost, objectionable odor, poor adhesion or lack of permanence.

Finally, one industry leader tried a coating based on PLIOLITE LATEX. Barely visible, this lightweight, odorless backing "muscles" fabrics in every direction. It helps them retain their shape, even after severe stretching—and reduces wrinkling. It also improves body and drape, with increased resistance to raveling, tearing or snagging. *And it's permanent!*

If you are interested in light-colored latices for compounding customer-winning backings, sizes, saturants or finishes for all types of fabrics, it will pay you to know more about PLIOLITE LATEX. Learn, too, about the other uses for this versatile latex and other resin and rubber latices produced by Goodyear. You can, just by writing for details plus the *Tech Book Bulletins* to:

Goodyear, Chemical Division, Akron 16, Ohio.



CHEMICAL
GOODYEAR
DIVISION

COATINGS DEPARTMENT

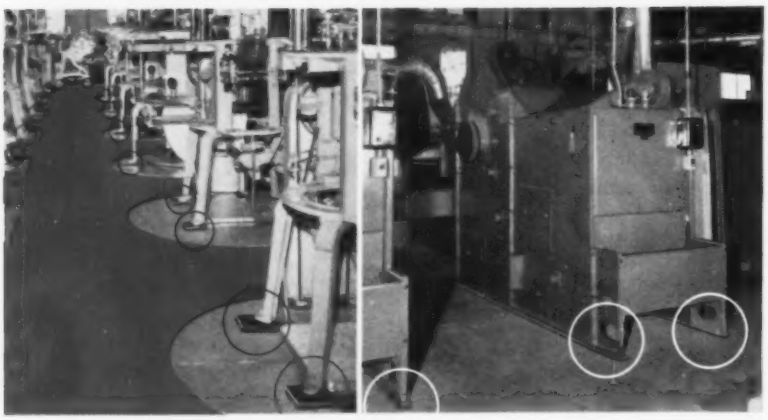
Chemigum, Plioflex, Pliolite, Plio-Tuf, Pliovic—T. M.'s The Goodyear Tire & Rubber Company, Akron, Ohio

CHEMIGUM • PLIOFLEX • PLIOLITE • PLIO-TUF • PLIOVIC • WING-CHEMICALS

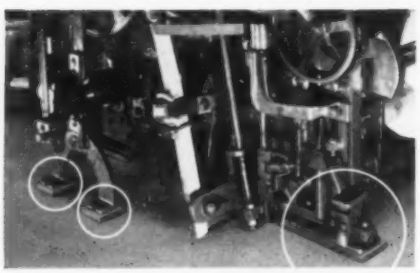
High Polymer Resins, Rubbers, Latices and Related Chemicals for the Process Industries

Leading Textile Mills Report...

UNISORB Cuts Costs Reduces Noise and Vibration



Unisorb pads are used under all types of equipment to save installation time, eliminate lagging and bolting and reduce noise and vibration. Preparatory equipment, Circular Knitting Machines and Looms, as shown here, typify Unisorb installations. Unisorb is the only flexible mount available in variety of grades to suit "vibration personality" of each machine.



Unisorb pads save up to 75% in installation time — just apply cement to pad and set in place. **No danger of "walking"** and machines can be moved any time. Every mill can be made quieter and more efficient.

Make Sure All Your Machines Are On Unisorb! Send for Sample and Free Book — or contact your nearest Unisorb Distributor . . .

Industrial Supply Co., Clinton, S. C.
Textile Supply Company, Dallas, Texas;

UNISORB 212 SOUTH ST. BOSTON 11, MASS.
Division of The FELTERS Company

Want more information? Send for set of Unisorb "Facts" Books!

Please send me a Unisorb Sample and Free Book.

Company.....
Name.....
Address.....
City.....Zone.....State.....

FEB-31

Shorts and Remnants

by J. C. C.

► Happy Columbus Day—Discoverer's Day (Ind.); Landing Day (Wis.); Farmers Day (Fla.); Fraternal Day (Ala.); Memorial Day (Ark.). Oct. 12—celebrated in 33 states of U. S. A., with the compliments of the textile industry, as Chris' father was a wool weaver.

Also welcome to Greenville and the Southern Textile Exposition and if you can, stop by at Booth 408 and see us. Have a cigar, stop and sit. Maybe we'll have some movies, melon cutting, or dancing girls. Ole S&R doesn't know just what is on the program for Booth 408, but never a dull moment.

The Show Preview, beginning on page 125, is "must" reading, whether you're going, or not.

Our editors have got some old pictures from our pages of October 1915 featuring the first Southern Show at Greenville and it was quite an event with band concerts, too. In fact 1915 was a pretty good year, come to think of it—no television, radio, flying saucers, sputniks, flights to the moon.

Of course, Teddy Roosevelt had split up with Howard Taft a couple of years before and let a "long-hair" from Princeton, a former Atlanta, Ga., lawyer, Woodrow Wilson, walk away with the Presidency of the U. S. A. He was having his troubles keeping out of the raging war in Europe where Germany and Austria were making it rough for England, France, Russia, and Italy. But business was good—textiles included. A crisis came on with the sinking of the "Lusitania" by German submarines but an apology and settlement were made and Wm. Jennings Bryan gave over as Secretary of State to Robert Lansing.

Only a small % of U. S. A. homes were electrified and folks out in the country and small towns bathed in a galvanized tub on Saturday nights—in the winter in front of a sheet iron heater or a glowing "baseburner."

Things were starting to hum though as Henry Ford put in a straight line production system for his $400 model T and started the ball rolling with a $5 minimum wage for an 8-hour day. Almost 2,000,000 families (over 60,000,000 today) had automobiles—touring cars, with isinglass side curtains but many of them

First introduced in 1928...

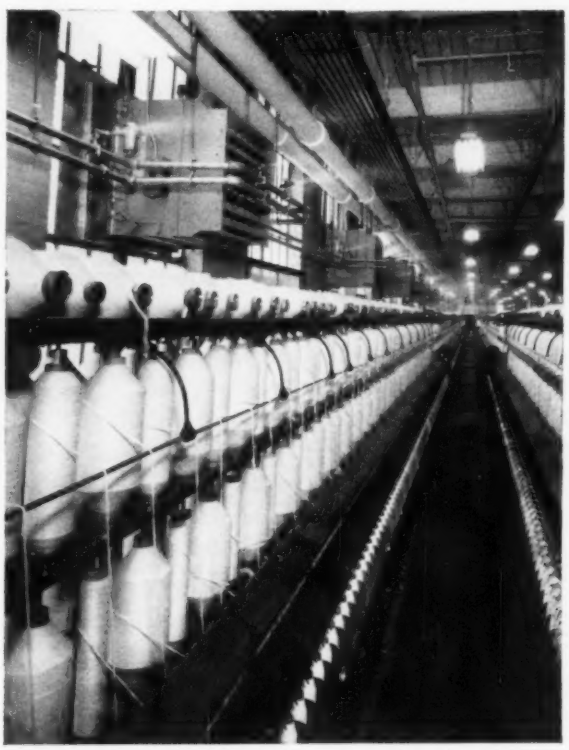
1928 was a banner year! That was the year Cannon Mills Company brought out its now-famous "towel ensemble" . . . announced *colored* hand and bath towels for the first time, as well. It was back in 1928, too, that Cannon also insured *finer* product quality with another innovation . . . AMCO Humidification.

In the 30 years since then, as Cannon has diversified its product line and added new manufacturing facilities, American Moistening Company has continued to work closely with Cannon in the installation of *carefully engineered* Amco Air Conditioning Systems.

Amco, of course, designs all types of systems — humidification; humidification in combination with cooling, as in a ductless evaporative cooling system; unit dry-duct systems; or central station air conditioning.

For expert advice, backed by many years of textile air conditioning experience, let an Amco engineer suggest a solution to *your* particular air conditioning problem. Naturally, there's no obligation.

Amco No. 6 Atomizer, one of many quality Amco components, produces an exceptionally fine, smoke-like spray. Its better performance and ease of maintenance make it a superior, automatically self-cleaning atomizer both for new installations and for replacements.



Amco ductless system of humidifying, cooling and ventilating installation in spinning room at Cannon Mills plant in Kannapolis, N. C.

AMCO

SINCE 1888

AIR CONDITIONING EQUIPMENT

AMERICAN MOISTENING COMPANY • CLEVELAND, NORTH CAROLINA

BRANCHES: ATLANTA, GA. • PROVIDENCE, R. I. • TORONTO, ONTARIO

This man is developing 16 tons of pressure to make smoother, stronger joints

Sixteen tons of pressure, developed by this man through use of a Clipper lacer embeds hooks firmly and securely . . . to make a joint as durable as the pieces you are joining. It embeds the hooks flush with the surface and with all strain distributed evenly across the complete joint. The Clipper machine method of making joints is the fastest available. In one easy operation, durable, flexible joints up to 12 inches wide connecting pieces from 1/16 inch to 13/32 inch thick are completed by Clipper. Whenever you have a problem of making two pieces one — Check with Clipper.

For more information— *Detailed product information and case history examples of Clipper machine-lacing benefits are contained in Bulletin No. 157. Send for your free copy today.*

Ask your Industrial Distributor for Clipper Products

Clipper BELT LACER COMPANY

980 Front Ave., N. W., Grand Rapids 2, Michigan

Shorts and Remnants

with electric starters and lights, demountable rims—not only Fords, but Oaklands, Chalmers, Elcars, Chandlers, Whites, Stevens', Duryeas, Marvins, Pierce-Arrows, Coles, Appersons, Reos, Premiers, Nationals, Haynes', Maxwells, Stars, Overlands, along with Buicks, Studebakers, Cadillacs, and Packards. Folks were beginning to get around—sometimes as much as 150 miles and five or six punctures a day.

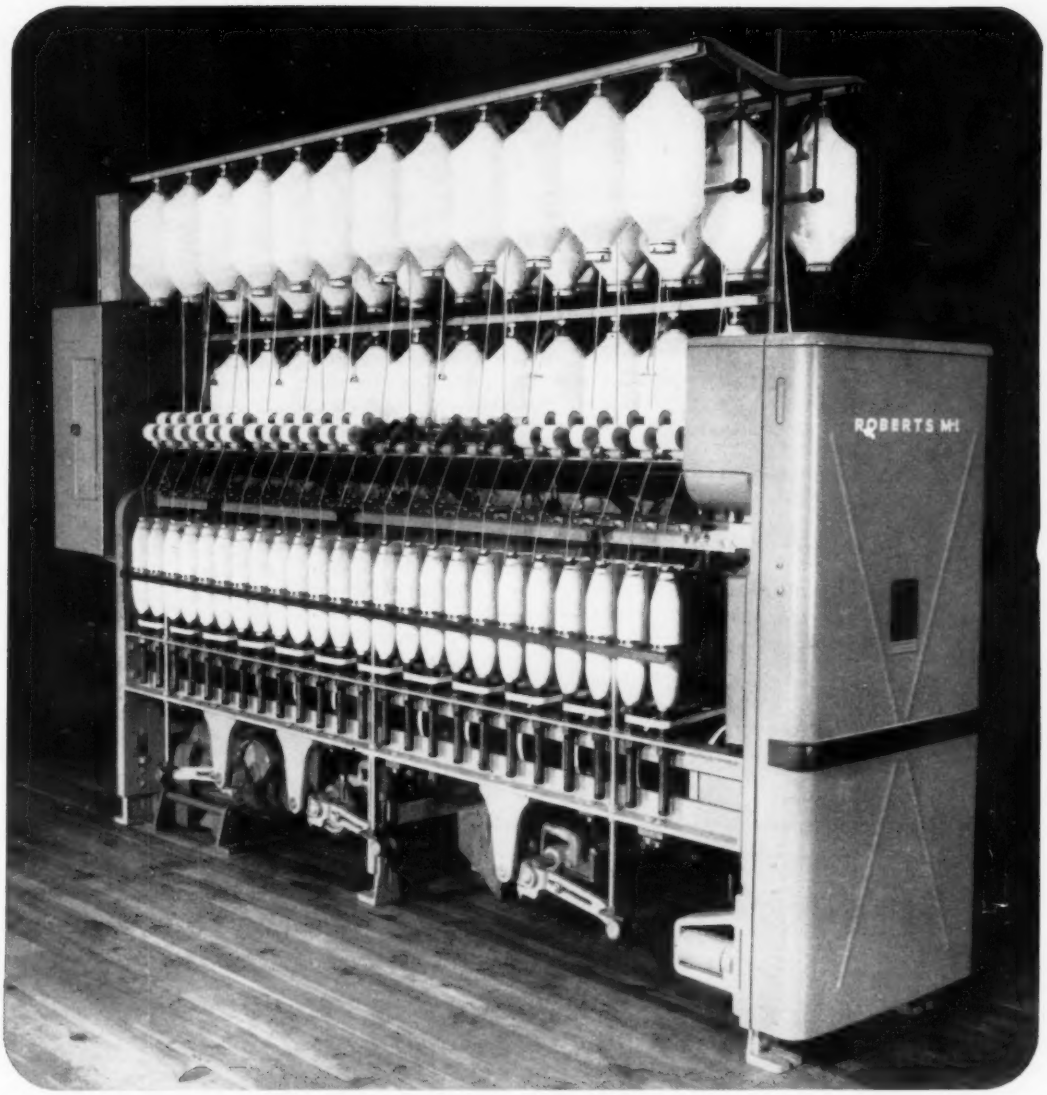
Things had started to go to pot in other ways. The amendment to the Constitution in 1913 legalized income taxes. Of course it just applied to rich folks making $20,000. But the dam had broken and a public debt of $1,191,264,068 or $11.85 per capita looked pretty big to the folks in 1915. Wonder what they'd say about today's $285,000,000,000 or over $1,600 for every man, woman, and child in the U. S. A.

They later put a sound track on "The Birth of a Nation" but it was better on the silent screen and 1915 was a great time for movies with Mary Pickford, Ben Turpin, Wallace Reed, Henry Wallhall, and Rudolph Valentino emoting silently with subtitles and "one minute please to change films."

They didn't have any Elvis Presley or hits like "Splash, Splash," "Gingerbread," etc., but they didn't miss them so much with "By the Sea," "Are You From Dixie," "Curse of An Aching Heart," "Missouri Waltz," "Sunshine of Your Smile," "When You Wore a Tulip, A Big Yellow Tulip," "On the Trail of the Lonesome Pine," "Peg Of My Heart," "That Old Gal of Mine," and "A Little Spark of Love Still Burning," not to mention a couple that the British had already sneaked in to last us through the war—"Pack Up Your Troubles in Your Old Kit Bag" and "Keep The Home Fires Burning."

Now, what was it that happened in good old 1915? Oh yes, the first Southern Textile Exposition was held in Greenville, S. C., in the P & N RR building with 163 exhibitors, and a good attendance that foretold the coming end of the New England Shows at Old Mechanic's Hall in Boston. The southern textile industry had come of age.

► That was 1915 and in those days cotton mills were cotton mills; woolen mills and silk mills were just that. "Artificial silk" had been on the way



ROBERTS SPINNING

ALL NEW—ALL BALL BEARING ROBERTS M-1 SPINNING FRAME

330 Roberts 25-inch Frames, with over 105,000 spindles, have been installed in American mills in the past two years. These Roberts Frames are very ruggedly built and exceptionally simple in design. Only tried and proven principles are used, which insure consistent high quality results.

Roberts M-1 Frames produce better yarns at higher front roll speeds and put more ounces of yarn on the bobbin. The ball bearing construction provides smoother operation plus reduced power use. Changes in draft, twist, lay, or speed are made very simply. Roberts M-1 Frames are available in 25-, 36- and 39-inch widths, for cotton, synthetics, worsted or blends, in short or long fiber lengths.

The benefits of big package spinning are available at

$32 to $40 per spindle

including freight and installation

ROBERTS COMPANY

SANFORD, NORTH CAROLINA

Shorts and Remnants

since 1889 (Chardonnet) but they didn't even call it rayon until 1924. Now if you want to be up to date on synthetics and man-made fibers, go back to your August issue of TI and read all about them including a bright yellow chart "Properties & Uses of the Man-Made Fibers" printed upside down on one side just to confuse folks or get them to stand on their heads to read it. Regardless of that, requests for extra copies of the issue, the section, or the chart pour in with such comments as:

" . . . helpful and informative and desire to use in several departments. . . "

B. G. MERRITT
Pur. Agt.
Kerr Bleaching & Finishing Wks.
Concord, N. C.

" . . . Very enlightening."

B. L. HARRELL
Qual. Control
Celanese Corp. of Amer.
Rome, Ga.

" . . . excellent and very helpful."

HAROLD J. NORTHUP
Chem.
Bradford Dyeing Assn. (U. S. A.)
Westerly, R. I.

" . . . please send us 6 copies . . . one in each of our departments."

STANLEY B. GOLDBERG
Duro Finishing Corp.
Fall River, Mass.

► Now **Henry H. Stone,** v-p, John B. Stetson Co., Phila., Pa., wants to know why no reference to protein and man-made fibers from foreign countries. We may try that next time—what do you think? U. S. A. fibers seem to be coming so thick and fast, it's a job to keep up with them.

► Also, among written, telephone, and wired requests for extras on fibers chart and for the entire section were those from: **Richard S. Keene,** Geo. W. Bollman & Co., Adamstown, Pa.; **F. Raudelunas,** Nat'l Starch Products, Inc., Plainfield, N. J.; **Lee Murdock,** Metal Film Co., Inc., N. Y.; **C. P. Bertland,** v-p North Amer. Rayon Corp., N. Y.; **Colin C. Campbell,** Rohm & Haas Co., Phila., Pa.; **W. J. Elliott,** Eng. & Res. Dept. Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn.; **Bryant Nichols,** Whitin Machine Wks., Whitinsville, Mass.; **Paul N. Lovin,** Pacific Mills, Hot Springs, N. C.; **Robert D. McCabe,** Underwear Inst., N. Y.; **C. E. Herrick,** East Greenwich, R. I., who also wired for copy to **Dr. Harold Kwart,** U. of Del., Newark, Del.; **C. Decker,** W. R. Grace & Co., Clifton, N. J.; **Albert J. Richards,** Res. & Dev., United Elastic Corp., Lowell, Mass.; **Chas. W. Mackett,** Globe Woven Belting Co., Inc., Buffalo, N. Y.; **Herbert C. Heineman,** Ch. Chem., Celanese Corp. of Amer., Cumberland, Md.; **Tecla R. Howden,** Secy. & Treas., James W. Howden Co., Inc., Hawthorne, N. J.; **George R. Wellington,** Mohawk Carpet Mills, Inc., Atlanta, Ga.; **F. A. Prisley,** Head Chem., Brookneal (Va.) Mills; **C. A. Grabarek,** Atwater Throwing Co., Plymouth, Pa.; **Chas. A. Gardner,** Pur. Agt., Sayles Finishing Plants, Inc., Saylesville, R. I.; **S. F. Sylvester,** Sales Mgr., Monsanto Chem. Co., Springfield, Mass.; **R. Hoffman,** Mgr. Skenandoa Rayon Corp., Utica, N. Y.; **Harold Pototsky,** Freehold, N. J.; Multi-Tex Products Corp., Newark,

SINCE 1869

"VERYBEST" LOOM NECESSITIES

JACOBS

Lug Straps, Picker Sticks, Pickers, Dobby Cords, Leather Straps and other Loom Parts.

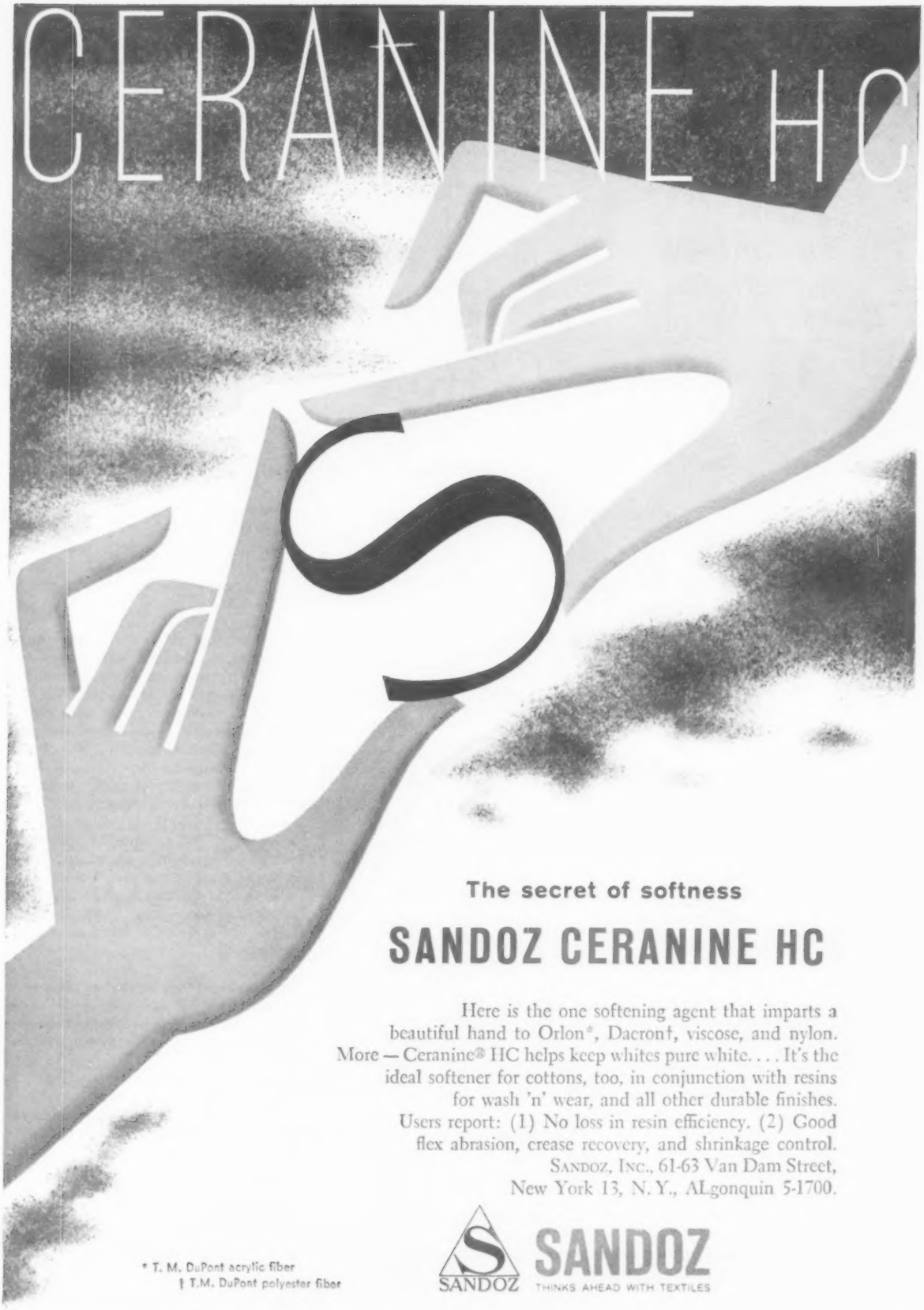
See us at the Greenville Show
Booth No. 422, Annex 1

THE BULLARD CLARK COMPANY

JACOBS

SOUTHERN DIVISION
Charlotte, N. C.

NORTHERN DIVISION
Danielson, Conn.



The secret of softness

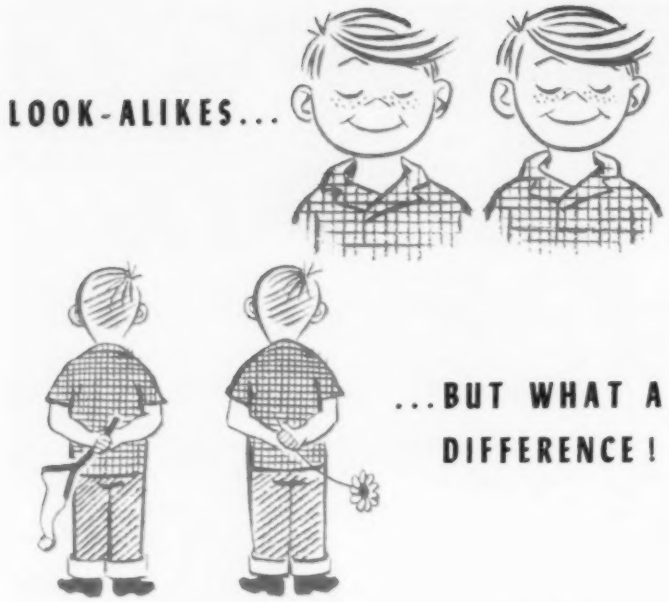
SANDOZ CERANINE HC

Here is the one softening agent that imparts a beautiful hand to Orlon*, Dacron†, viscose, and nylon. More — Ceranine® HC helps keep whites pure white. . . . It's the ideal softener for cottons, too, in conjunction with resins for wash 'n' wear, and all other durable finishes. Users report: (1) No loss in resin efficiency. (2) Good flex abrasion, crease recovery, and shrinkage control.

SANDOZ, INC., 61-63 Van Dam Street, New York 13, N. Y., ALgonquin 5-1700.

SANDOZ
THINKS AHEAD WITH TEXTILES

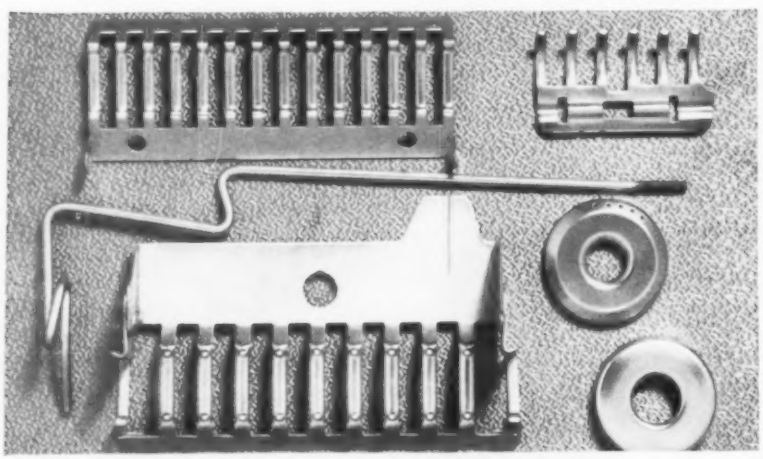
* T. M. DuPont acrylic fiber
† T.M. DuPont polyester fiber



The fact that all HARD CHROMIUM PLATING looks the same may mislead you.

During 24 years of successful experience, we have proven many times to our customers (many of whom have been with us for 20 years or more) that our fast, efficient service and "know how" mean "dollars in their pockets."

Why go through the trial and error method when we are experts in our chosen field . . . top quality HARD CHROMIUM PLATING.



The leading name in textile HARD CHROMIUM PLATING, both satin and polished finish.

Walhard

WALTON and LONSBURY

77 NORTH AVENUE ATTLEBORO, MASSACHUSETTS

Shorts and Remnants

N. J.; **Stephen Sacher,** East Meadow, L. I., N. Y.; **John W. Ogletree,** v-p, Polymer Industries, Inc., Springdale, Conn.;**Gerardo Pozas,** Hilados del Norte, Monterrey, Mex.; **Chas. W. Rice, Jr.,** Amer. Cyanamid Co., N. Y.; **Andrew J. Lazarus,** Dow Chem. Co., Williamsburg, Va.; **C. W. Shoffstall,** U. S. Tariff Comm.; **Stephen I. Rudo,** Werner Textile Consultants, N. Y.; and from librarians at Armstrong Cork Co., Lancaster, Pa.; Amer. Enka Corp., Enka, N. C.; Courtaulds (Can.) Ltd., Montreal; Natl. Aniline Div., Allied Chem., N. Y.; Callaway Mills Co., LaGrange, Ga.; Can. Celanese, Sorel, P. Q.; Wyandotte (Mich.) Chem. Corp.; Can. Industries, Ltd., Kingston, Ont.; Du Pont Co. of Can. (1956) Ltd., Kingston, Ont.; Inst. Textile Tech., Charlottesville, Va.; B. F. Goodrich Co., Brecksville, O.; Lowell (Mass.) Tech. Inst.; etc., etc. If we missed you this month read this column for Nov. Just like a small town newspaper—we like to mention names.

► Sometimes they don't sign any name as the reader who wants to know why Eastman Chem. Products telephone-dial ad in August TI (p. 126) says "a busy number with mills and converters" and then doesn't give the telephone number. Now they mean Eastman 50 Acetate is a busy "number" but if you really want to call, try New York, Oregon 9-1820.

► Also, if you believe TI has sold out to the synthetics you should read some of these "Executive Views" pro and con on gin-damage to cotton. A telephone caller from Texas wanted to know author of this column in August.

► Also report has it that at least one cotton firm is offering mills precleaned and blended cotton—a package deal, and for more on this look to TI.

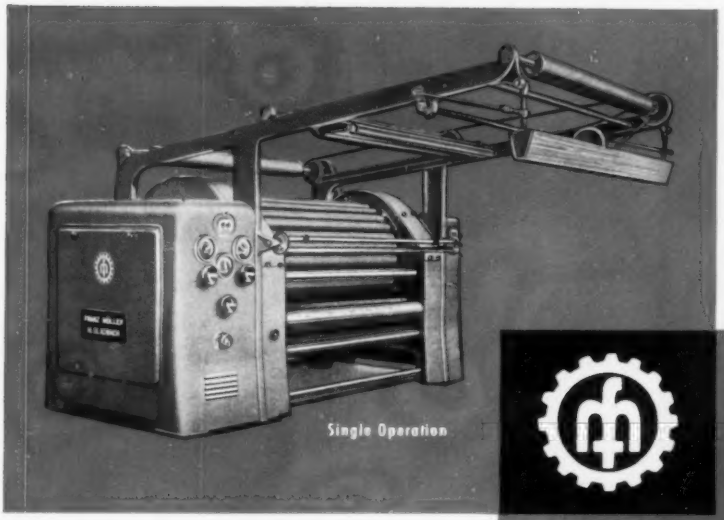
Warp Sizing

" . . . I was a little disappointed in the space allocated to the 'Jet Cookers' . . . the book is still an excellent manual on slashing. . . "

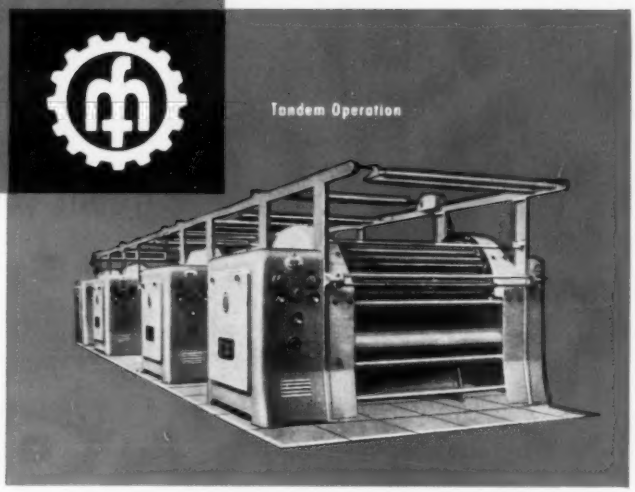
F. H. MARTIN
The Springs Cotton Mills
Fort Mill, S. C.

► "Warp Sizing," by Dr. Paul Seydel, reprinted from TI and featured in S&R in Sept., is well on its way. At least three schools (Clemson,

WHY 80 ? MAYBE 30 ARE SUFFICIENT



THE RESULT OF 100 YEARS EXPERIENCE



30 of these high speed nappers replaced 80 standard nappers in a North Carolina mill

Please visit our booth
20th
Southern Textile
Exposition
October 6 - 10, 1958
Greenville, S. C.

for reasons of:

- **New Processing Methods**
- **Unequalled Finish**
- **Highest Production**
- **Labor Savings**

our newly established service centre in Greenville, S.C. offers the following facilities:

- New sales and show room
- Free demonstrations
- Large stock of spare parts
- Permanent German service man

For more information contact our Agents:

PARROTT & BALLENTINE

610 South Carolina
National Bank Building
Greenville, S.C. / USA

FRANZ MÜLLER

MASCHINENFABRIK • M.GLADBACH (WESTERN GERMANY)

Whatever you buy
IN TEXTILES "made in U.S.A."
gives quality you can trust

Stickers for your mail are offered at no charge. Large quantities at cost as a public service.

We invite you to put your local **S-W** man on the SPOT

He can **SPOT** *trouble and* **STOP** *wasted time for recovering rubber rolls if you will use the S-W Roll-Guard Plan.*

S-W INC.

Ask him to prove this in your mill, on your machinery, this month.

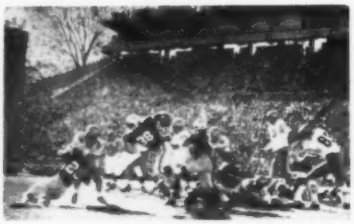
STOWE-WOODWARD, INC. Griffin, Georgia · Newton Upper Falls, Mass. · Neenah, Wisconsin

Shorts and Remnants

Texas Tech, N. C. Vocational) indicate its use as reference work. Request for copies of the book continue, including **Frederick T. Lense,** Sou. Res. Inst., Birmingham, Ala.; **C. A. Boggs,** Elberton (Ga.) Mills.

Fall Is Here

We just had to have a picture for Oct. so here is one from a current ad in TI series on "This is Textiles U. S. A."



Quoting from this ad—"A touch of fall is in the air. Hundreds of colleges and pro football teams, thousands of high school and sand lot teams spring into action—wearing colorful jerseys, pants, socks—all textiles from U.S.A. spindles, looms, and knitting machines. Millions of cheering spectators with new finery, dresses, skirts, sweaters, sports jackets—all textiles, even to the pennants and the tarpaulin to cover the playing fields. Sports contribute in a big way to textiles, second among U. S. A. industries."

Other "Textiles U. S. A." (copies upon request) feature babies, family groups, new homes, automobiles, operating rooms, textile customers.

► We appreciate the kind manner in which **John Freed,** advertising manager of Universal Winding Co., informed us of the omission of his company's name from the list of firms having licensed processes based upon patents assigned or pending for the production of textured yarns ("What's New in Textured Yarns," Aug., 1958, pp. 111-114). To set the record straight, we quote from his letter:

". . . currently in the area of 20 million pounds of textured yarn is being produced by our licensees . . . Saaba licensees number 22. Similarly, the number of processors under Fluflon and Superloft, all of whom are Universal licensees, number about twice the figures given. . ." In the article Saaba licensees were reported to number 10, Fluflon 14, and Superloft 16. Thanks again, Mr. Freed.

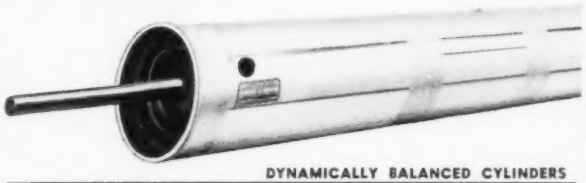
(Continued on page 18)

JENKINS PRODUCTS---
Engineered for Progressive Mills

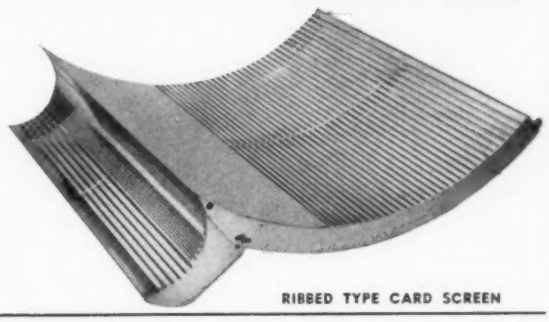
SEE US AT THE
BOULIGNY CO.
BOOTH 828
TEXTILE SHOW
OCT. 6-10 GREENVILLE

SPINNING CYLINDERS
CARD SCREENS

Today, more and more, Textile leaders are demanding JENKINS DYNAMICALLY BALANCED Spinning Cylinders, machined on exclusive Jenkins equipment to give smoother performance and more uniform yarn quality. . . also, Jenkins Card Screens with advanced-design grid bars, and other Jenkins features which insure perfect screen settings.



DYNAMICALLY BALANCED CYLINDERS



RIBBED TYPE CARD SCREEN

JENKINS Spinning Cylinders and Card Screens are engineered by men who for the past 45 years have pioneered in engineered metal products . . . for mills that have moved continually forward with higher quality at lower cost.

PERFORATED CARD SCREEN

Jenkins engineers are now pioneering the even-better products of the future. To be sure you are getting the newest advantages first, standardize on JENKINS equipment. Ask to see the newest brochure on our complete line of Services.

SEE US AT BOOTH 828

NOTE: *AT BOOTH 828 SEE THE AMAZING*

INDUSTRIAL SOUND DETECTOR

The latest thing in "Trouble-shooting". A portable Engineers Sound Detector that locates the smallest internal defects in moving machinery without shutting down or taking equipment out of service. See it and use it yourself on a cylinder demonstration unit at the show. Manufactured by BURKE & CO., Worton, Maryland . . . distributed exclusively by JENKINS METAL SHOPS, Inc. in 7 southern states.

SINCE 1912
JENKINS
METAL SHOPS
INCORPORATED
ENGINEERED PRODUCTS

JENKINS METAL SHOPS, Inc.

P. O. BOX 1160
GASTONIA, NORTH CAROLINA

OUTSTANDING WHITES

WITH

BLANCOPHOR® HS-31 **BLANCOPHOR® HS-71**

HS-31 (liquid) and HS-71 (powder) are equal in brightening efficiency and can be used interchangeably for improving bleached whites on cotton, rayon and cellulosic fibers. They exhaust more slowly than other available brighteners, level well and are suitable for application on reel, jig or package machine.

Due to excellent solubility and slow exhaust, these BLANCOPHOR brands are extremely useful for pad application and as a whitening component in starch formulations. They are compatible with practically all common ingredients used for finishing purposes.

BLANCOPHOR HS brighteners are also stable to storage; moreover, once exhausted onto fabrics, they do not yellow or produce other discolorations.

For brilliant whites on your bleached goods, we suggest you investigate these superior brighteners. A free test sample and complete technical literature is yours for the asking. Just write today.

ANTARA gaf

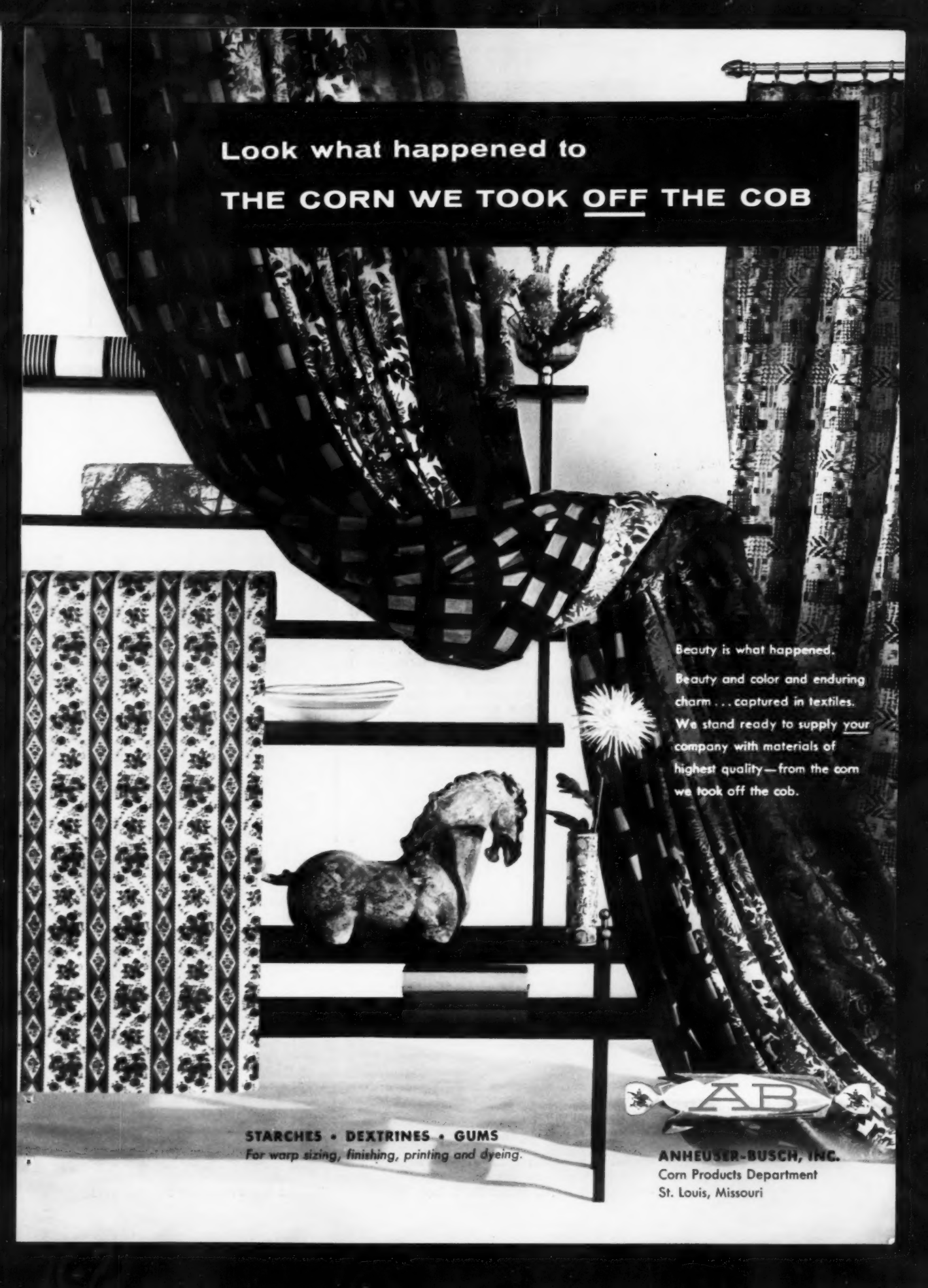
ANTARA® CHEMICALS

A SALES DIVISION OF

GENERAL ANILINE & FILM CORPORATION

435 HUDSON STREET • NEW YORK 14, NEW YORK

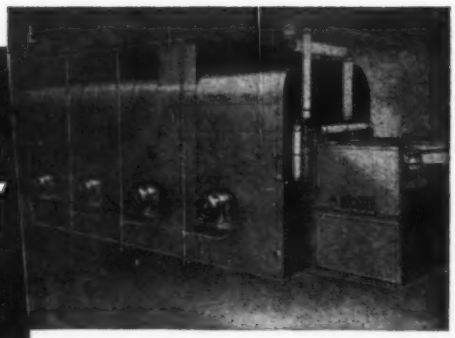
Blancophor HS-31 and HS-71, manufactured by General Aniline and Film Corp., are sold outside the United States under the names, Tintofen D-P Liquid and Tintofen D-P.

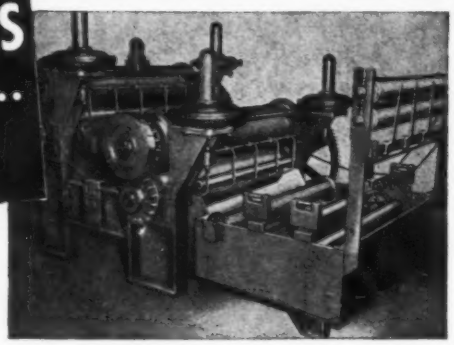

Look what happened to
THE CORN WE TOOK OFF THE COB
Beauty is what happened.
Beauty and color and enduring charm . . . captured in textiles. We stand ready to supply your company with materials of highest quality—from the corn we took off the cob.
AB
STARCHES • DEXTRINES • GUMS
For warp sizing, finishing, printing and dyeing.
ANHEUSER-BUSCH, INC.
Corn Products Department
St. Louis, Missouri

For better Fibre Processing

SARGENT WASHERS AND DRYERS

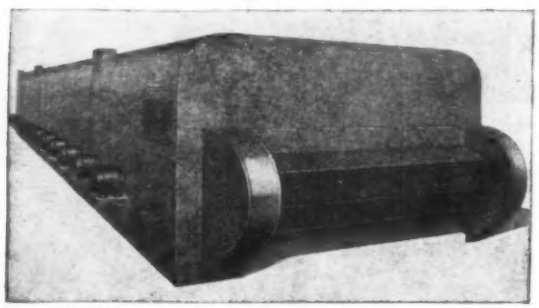
any Fibre... any blend





Backwasher and Backwash Dryer — pneumatic loading, washer has stainless steel rolls and bowls. Dryer's new design allows lowered operating temperatures, eliminates brittle ends, injury to tops.

Tops in their field, these rugged machines are continuous and automatic, completely dependable. Fibre quality protection, operating efficiency and economy are unsurpassed . . . Sargent Washers provide *clean* water for the final rinse — automatically timed dump controls remove sediment from each bowl at pre-set intervals. Lanolin recovery systems for wool washers, side-settling tanks if desired. . . . Sargent Dryers are the standard for the industry — the speediest, easiest dryers on the market to install, economical to operate, simple to maintain. The Single Apron Dryer is the simplest, most compact down-draft dryer ever built. Another "first" by Sargent is a gas-fired wool dryer, suitable for all fibres, that protects the quality of even the finest cashmere. The Contra-Flow Dryer with its revolutionary up-and-down air flow guarantees fastest, completely uniform drying through entire bed of fibres. May we tell you more?



Raw Stock Dryer — Single Apron, downdraft. For scoured, bleached or dyed wools, cottons, synthetics.

Raw Stock Dryers; Backwashers and Backwash Dryers; Stainless Steel Washers and Bowls; Continuous Automatic Extractors and Squeeze Rolls; Contra-Flow Dryers; Washers for scouring, bleaching, acidifying; Lab Washers and Dryers; Pilot Plant Dryers; Skein (pole) Dryers; Yarn scouring machines; Shrink-treatment systems; Automatic Feeds; Conveying Systems; Yarn and Top Presses.

C. G. SARGENT'S SONS CORPORATION

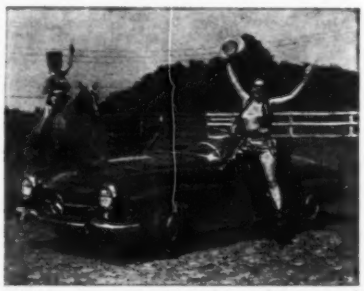
Graniteville, SINCE 1852 Massachusetts

PHILADELPHIA 19 — F. E. Wasson, 519 Murdock Road
CINCINNATI 15 — A. L. Merrifield, 730 Brooks Avenue
CHICAGO 44 — John Law & Co., 5850 West Lake St.
DETROIT 27 — Clifford Armstrong Co., 16187 Grand River Ave.
HOUSTON 17, TEX. — The Alpha Engineering Co., Box 12371
CHARLOTTE, N.C. — W. S. Anderson, Carolina Specialty Co.
ATLANTA, GA. — J. R. Angel, Mortgage Guarantee Building
TORONTO 1, CAN. — Hugh Williams & Co., 27 Wellington St. East

Shorts and Remnants

(Continued from page 14)

► Just what "Road-E-O" time in Las Vegas has to do with textiles, we don't know, but Studebaker-Packard must think it's pertinent or they wouldn't have sent TI a news release on it. Anyway, here's the photo



which accompanied the release and that's a Mercedes-Benz auto, in case you are interested.

► Remember the "$64 question"? A recent news item concerned the death of a former head of Eversharp, Inc., and credited him with originating this program. Could be he had heart failure from watching Elfrida, or Van Doren, or Nadler? Someday a company president is just going to walk into one of these programs (TV) and say "You have just won yourself a good company, lock, stock and barrel" (whatever that means).

Want to Buy

" . . . Can you tell us if there is a manufacturer of dyeing and finishing machinery who sells equipment suitable to small lot work Jersey fabric] . . . ?"

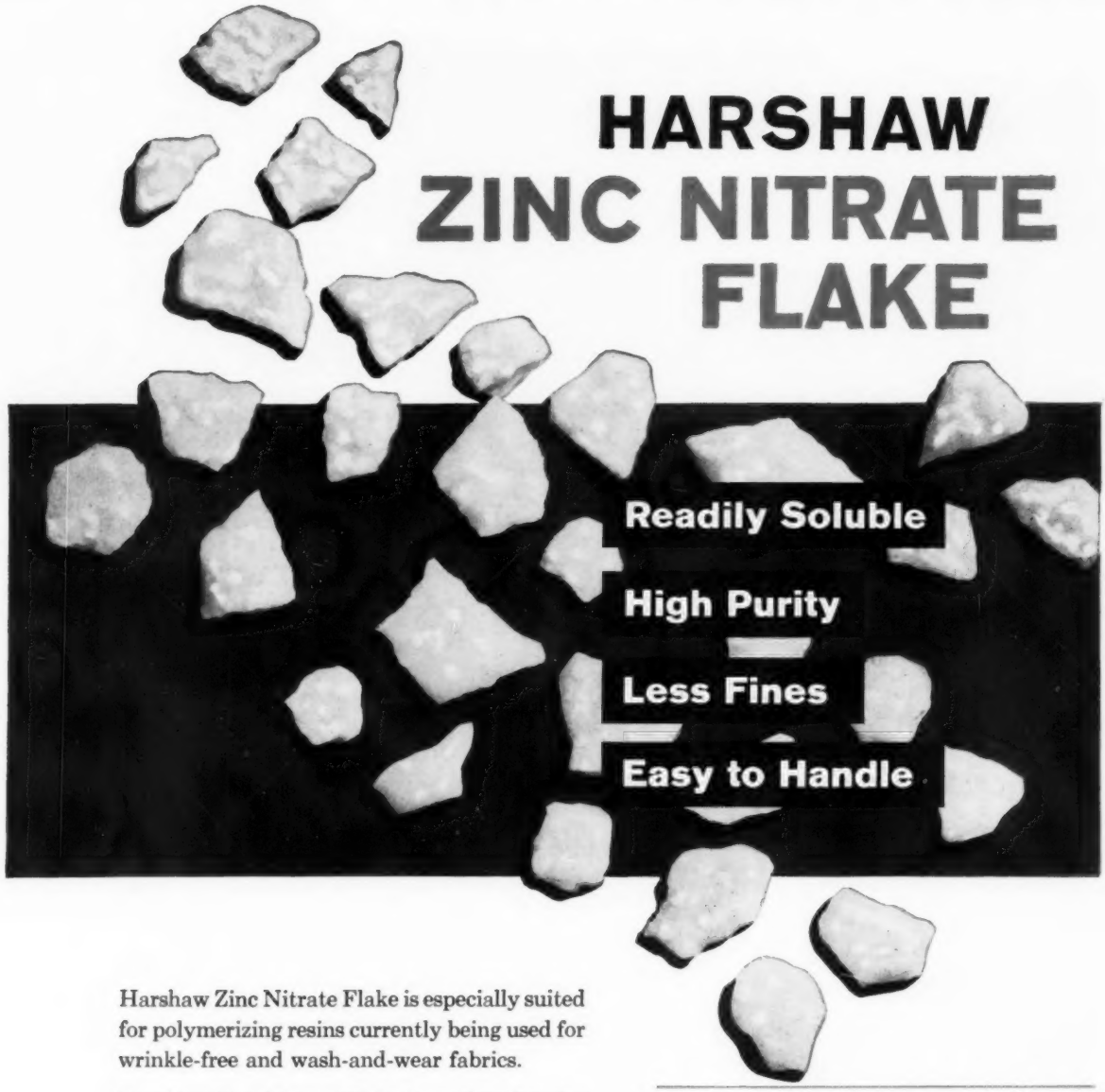
J. M. WARLICK
Southland Athletic Mfg. Co.
Terrell, Texas.

"En el numero correspondiente al mes de mayo de 1957 . . . aparece un articulo titulado NYLON TAPES BOOST SPINNING PRODUCTION muy interesante para nosotros. Si les es possible, les agradeceriamos nos mandaran muestras de las cintas de nylon, de las cuales se ocupa dicho articulo. . . "

SERVICIO TEXTIL INTERNACIONAL
Barcelona, Spain.

"I wonder if you could let me know the names of the manufacturers who are in a position to quote for a smallest automatic economic Screen Printing plant for printing cotton and silk fabrics and request them to please send me at their earliest a detailed Proforma Invoice to give me some idea of the C&F,

HARSHAW ZINC NITRATE FLAKE



Harshaw Zinc Nitrate Flake is especially suited for polymerizing resins currently being used for wrinkle-free and wash-and-wear fabrics.

Harshaw Zinc Nitrate Flake is produced under rigid control assuring the user of uniform resin catalysis at all times.

Harshaw Zinc Nitrate Flake measures about $\frac{3}{32}$" thick by ½" long, thereby reducing dust and fines to absolute minumum.

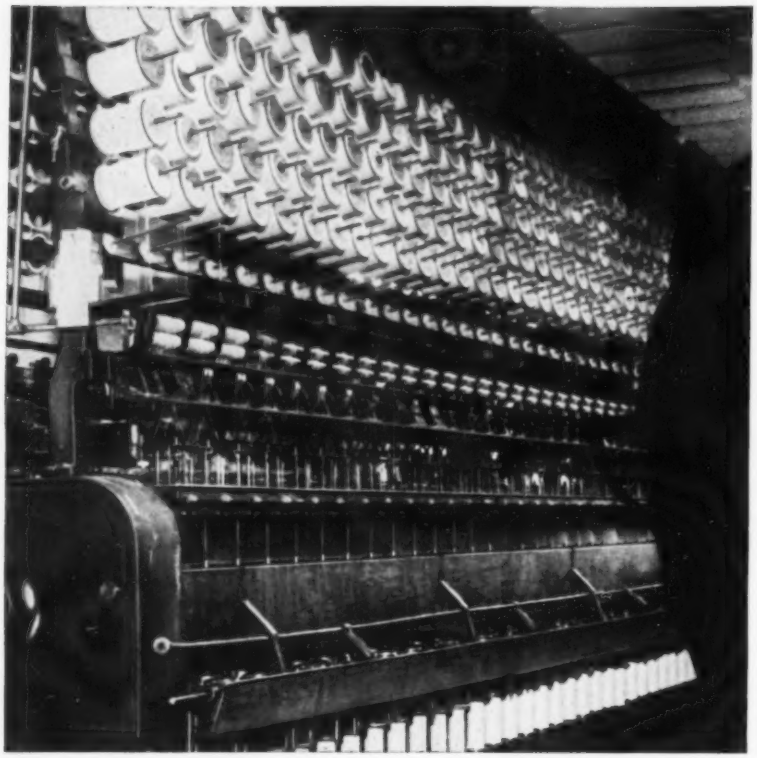
Packed in 300 or 100 pound Leverpak drums with polyethylene liner, Harshaw Zinc Nitrate Flake is available for immediate shipment. Write for samples and prices.

TYPICAL AVERAGE ANALYSIS:	
Assay as $Zn(NO_3)_2 \cdot 4H_2O$	72.5%
Zn	24.6%
Fe	0.001%
Pb	0.003%
pH of 5% solution	5.2
Insol. in 1% Nitric Acid Solution	0.001%

HARSHAW

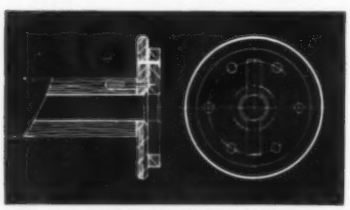
THE HARSHAW CHEMICAL CO.
1945 E. 97th Street, Cleveland 6, Ohio

CHICAGO • CINCINNATI • CLEVELAND • DETROIT • HASTINGS-ON-HUDSON, N.Y. • HOUSTON • LOS ANGELES • PHILADELPHIA • PITTSBURGH



For over 45 years, these same Lestershire bobbins have seen continuous use at The Linen Thread Co., Inc.!

Many of the Lestershire bobbins shown here have been in continuous service since 1913! They're still on the job at The Linen Thread Company, Inc., Patterson, N. J. after thousands of hours of punishing operation. Mr. Ronald Vaughan, Assistant Plant Manager, states: "Our bobbins get rough handling. They're thrown into boxes, dropped on the floor. We find the Lestershire Bobbin has the strength, durability and accuracy we require in our plant."



EXCLUSIVE ANCHOR SCREW CONSTRUCTION

Lestershire's unique and patented method of joining bobbin heads permanently to maple barrels is a major reason why Lestershire Bobbins take year-in and year-out use and abuse without failure.

BOBBIN SPECIALISTS TO THE INDUSTRY

Custom produced to fit your precise needs, Lestershire bobbins are furnished in an extensive range of sizes, styles, and construction types.

Bobbins to meet every problem

Whether your bobbin problems involve larger "packages," higher rotating speeds, or the crushing action of tenacious yarns you'll find Lestershire has the engineering skills, tested facilities and depth of experience to produce the bobbin you want . . . when you want it.

REQUEST THIS CATALOG!

For the most up-to-date catalog on Bobbin Construction in the industry, write direct for Catalog W-10.

LESTERSHIRE SPOOL DIVISION

NATIONAL VULCANIZED FIBRE CO.

WILMINGTON 99, DELAWARE

In Canada:

NATIONAL FIBRE COMPANY OF CANADA, LTD., Toronto 3, Ontario

Shorts and Remnants

Karachi price of such a plant. . . "

S. H. AKBARI
The Pakistan Textile Millowners' Assn.
Karachi 2, Pakistan

"We are contemplating the manufacture of Chambray, plain, blue, 70 x 50 - 3.80 yds per lb, Sanforized. In connection with same, we would be pleased if you could supply the following information or advice as to where same may be obtained. It is our intention to purchase Warp and Filling yarns on cones: Type of Dyestuff Used; Counts—Warp and Filling; Finishing Machinery. . . "

J. TURNER
Ind. Supt., Clinton Prison
Dannemora, N. Y.

► **Ronald Eustace,** Mgr., El Leon S. A., Atlixco, Pue. Mex., wants "Kingpinless Casters;" industrial vacuum cleaner; also Bendix Eclipse bobbin holders (July ad); **Joseph A. Caragol,** Antonio B. Caragol, N. Y., wants rigid metallic card clothing for cotton; **R. L. Wiser,** Avon Yarn Mills, Asheville, N. C., wants data on Herr flyers (Nov. '57 ad); **M. Bryant,** Ft. Mountain Weavers, Inc., Chatsworth, Ga., wants more on Mount Hope weft straightener (Apr. ad); English Sewing Cotton Co., Ltd., Manchester, Eng., writes for Exact Weight yarn scales (June ad); **Thomas Alvarez,** Cia. Ind. Rio Bravo, S.A., Juarez, Chih., Mex., wants equipment for printing and making bags for flour; **F. L. Collis,** Plant Eng. Can. Celanese Ltd., Sorel, Que., wants information on Patterson-Kelley storage water heaters (Aug. ad).

Wash and Wear

A. S. Pitre, Bunge Corp., N. Y. ("subscribers to TI for 12 years") wants to know more about "wash and wear" woven or knitted bed sheets—Who makes?—What % of U.S.A. market? Is process covered by one patent and licensed?

Woven bed sheets with a no-iron finish are now being marketed by several mills, including Pequot Div. of Indian Head, Cannon, Pepperell, etc. Most sheeting mills will have resin treated sheets by this fall. So far they have not been called "wash and wear," but our ed. solemnly swears that they may now be called such as an order is reported for same from the Ku Klux Klan. And S&R just as solemnly says no up-to-date ghost, Halloween or haunted

(Continued on page 24)

Fibregard

Reg. U.S. Pat. Office

The Most Outstanding Lubricant You Can Use ...IF YOU'RE PROCESSING MAN-MADE FIBRES!

FIBREGARD being sprayed on at the picker. When this product is used, there will be no loading on the cards and the fibres will be bound together without becoming tacky at any time.

The only lubricant that adheres uniformly to the smooth, glassy surfaces that normally repel moisture and oily lubricants is FIBREGARD. As a result, it offers processors of synthetics many outstanding benefits.

FIBREGARD is the original colloidal lubricant . . . a smooth, viscous, flowable white cream instantly soluble in plain water, either hot or cold, hard or soft. It produces thin bodied stable emulsions that have a pH of 8.0 and it has a faint, pleasant odor.

Here's how you use FIBREGARD:

- **AS A STOCK LUBRICANT...**

  for synthetic fibres and blends of synthetics and wool or synthetics and cotton. It can also be used on all wool or worsted fibres.

  Any of these fibres treated with a FIBREGARD emulsion will show absolutely no loading on the cards and the fibres will be bound together without becoming tacky at any time. The stock will be lubricated uniformly and at a cost that will be lower than is practical with other stock lubricants.

- **AS A WARP SIZER, SOFTENER, BINDER...**

  Adding FIBREGARD in warp sizing formulas involving synthetics provides additional lubrication . . . insures a slick warp . . . and greatly increases loom efficiency. In addition it insures even sizing, slick warps, no clinging in the shed and no floats.

- **AS A CONE WINDING LUBRICANT...**

  FIBREGARD imparts added lubricity, prevents needle burn and also lays the barb to produce smooth yarns. In the treatment of carpet yarns made on tufting machines, this additional lubrication will increase the efficiency and production of the tufting machine.

IMMUNOL

Eliminate the fire hazard! Clean and rustproof textile equipment with IMMUNOL—the non-toxic, non-flammable solvent. It replaces alkali cleansers and solvents, does a faster, safer, less expensive cleaning job. Ask for literature and a free sample.

Many other benefits are yours when you use FIBREGARD. Write, wire or call for technical literature and for a free sample to test on your own equipment.

HARRY MILLER CORP. HAMICO 4TH & BRISTOL STREETS PHILADELPHIA 40, PA.

Manufacturers of
• GLYCOLA • POTENTOL • FIBREGARD
• REVERSOL • ACTIVOL • FIRMTAL

HARRY MILLER CORP.

Original Products and Processes Since 1936

4th and BRISTOL STS., PHILA. 40, PA.

DAvenport 4-4000 *Service Representatives in Principal Cities*

What's new and what's news IN TEXTILE CHEMICALS

Contrary as it may seem, news is not always about the new. In the field of textile chemistry, the excitement may concern an *old* friend which has suddenly taken on new importance. That's why these news notes will bring you facts about new *developments* in established chemicals, just as often as they will tell you about new chemicals. This month, three old standbys in a new light . . .

You may wish to check certain items in this advertisement and forward to those concerned in your own company.

ROUTE TO:

_____

_____

_____

_____

CHELATING AGENTS: VOLUME UP, PRICE DOWN

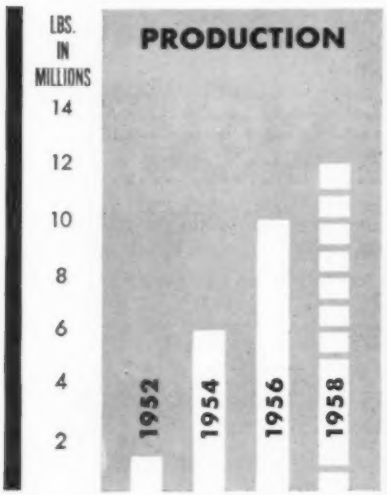
Troublesome metallic ions are now being inactivated in many textile formulas at reasonable cost. Volume production of Dow chelating agents leads to new economy considerations and now brings this benefit to every textile operator.

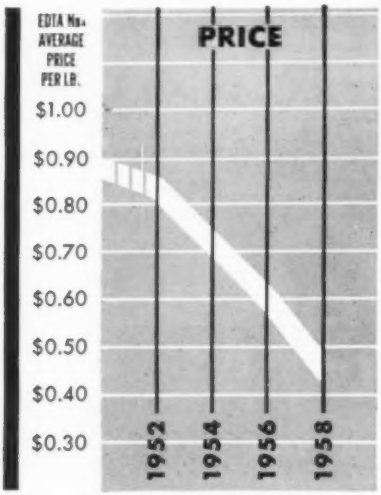
Textile people have long known, of course, that chelation was the most effective way of taking care of metal ions that often have caused streaking and staining or even weakening of fibers. The problem, until recently, was one of economy.

The Dow chelates—Versene®, Versenol® and Versenex*—have countless applications in the textile industry. If metal ions are a problem in dyeing, scouring, stripping and desizing operations, the answer is Versene 100 in solution form or Versene Flake or Powder (EDTA Na_4).

If ions of iron or other heavy metals are complicating peroxide bleaching operations, they can be inactivated by Versenex 80 in solution form (DTPA Na_5). Similarly, Versene 100 or Versenex 80 plus triethanolamine is the remedy for calcium, magnesium and iron in the kier boiling operation.

If you use water, you may need chelates. Wherever a manufacturing or processing operation uses water in any form, the problem of metallic ions is likely to exist. The surest, safest way to fight that problem is with chelation. And, thanks to the work of research men within the textile industry itself, new uses for the chelates are regularly being discovered. Dow representatives are working closely with them and are offering helpful suggestions in many areas of application research.

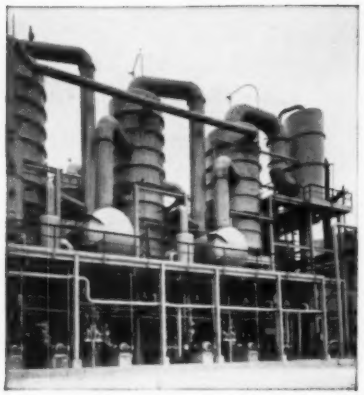




OTHER DOW

DOWICIDE

Fourteen different Dowicide® formulations preserve fabrics economically and efficiently. Dowicide G prevents mildew in sized warp yarns and grey goods.



SIX KINDS OF CAUSTIC
From 12 Distribution Points

From 4 different producing plants and 12 additional terminal points, Dow distributes caustic soda whenever and wherever it's needed.

Dow caustic is available in solution, solid and flake form. Moderate to large users find *50% solution* requires minimum handling, has low price. A *73% solution* must be diluted and cooled before storing but is much easier to handle than dry caustic. Very economical for large users.

Solid caustic is the least expensive of the dry forms but requires more handling—ideal for smaller users distant from production points. *Regular flake* is best for those buying 400 lbs. or less at a time. Many alkali users find *¼" flake* suits them best. Dustless, free-flowing *ground flake* compounds easily with other materials and many formulators prefer it.

★ ★ ★ ★

For additional facts on Textile Chemicals write to THE DOW CHEMICAL COMPANY, Midland, Michigan, Chemicals Sales Department 775T.

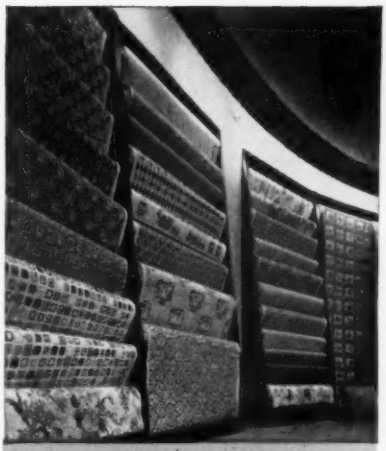
Remarkable dye solvent cures indigo blues

Manufacturers concerned with textile dye solvent problems, especially where indigo-type dyes are involved, are finding that Dowanol® DE-SG provides an extremely apt solution in a great many cases.

Dowanol DE-SG is a modified version of Dowanol DE (diethylene glycol ethyl ether). Used as a solvent with pastes containing alkyds, it controls evaporation and aids penetration and leveling.

A small quantity of Dowanol DE-SG greatly increases the solubility of the dye and manufacturers, particularly those who use indigo-type dyes, will also be pleased by the brighter colors and reduced crocking obtained.

In another application, Dowanol DE-SG, used with triethanolamine, produces in denims a color shade approximately 15 per cent deeper than can be achieved through the usual dyeing methods. A typical textile dyeing formulation would include 10 ounces of indigo powder, 27 ounces of Dowanol DE-SG, 14 ounces of triethanolamine and 100 gallons of sulfite liquor.



Brighter, deeper colors made possible with versatile glycol ether solvent, Dowanol DE-SG.

Dow's new 52-page Dowanol booklet will give you complete information on uses, analytical methods, toxicological and handling data on Dowanol compounds (the industry's widest line of glycol ether solvents). The booklet is available now. Please request it on your letterhead.

®TRADEMARK OF THE DOW CHEMICAL COMPANY

DOW CHEMICALS

BASIC TO THE TEXTILE INDUSTRY

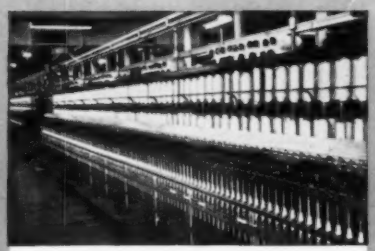
Glycol Ethers • Alkalies • Thickeners • Industrial Glycols

Glycerine • Chelating Agents • Ion Exchange Resins • Preservatives

Solvents • Polyols

YOU CAN DEPEND ON DOW

CHEMICALS OF TEXTILE INTEREST



GLYCOLS

Outstanding as fiber lubricants, keeping fibers from snagging or drying out during spinning and weaving, are three industrial glycols: monoethylene, diethylene and triethylene glycol.

CHLOROTHENE

Used for spray, bucket, dip or wipe cleaning, Chlorothene® (Dow 1, 1, 1-trichloroethane, inhibited) is the *safer* industrial solvent for cleaning machinery, tools and small parts.

SODA ASH

Dow can offer important savings on mixed shipments of soda ash and caustic soda. Write to Dow for free book on properties, uses, handling and storage of soda ash.

You're Always

at the
GARLAND BOOTH
106
during the
Southern Textile
Exposition

AND A
BRAND NEW
PRODUCT

You'll be sincerely welcomed by . . . "It's great to see you again" (our many old friends) or "Very nice to meet you" (New show acquaintances) at the Garland booth.

Whether an old friend, a new friend, we hope you'll find our display interesting.

For all show goers, you'll be brought up to date on the dependable Garland products that have served even the oldest old-timers for years.

Whether your first or fiftieth show, you're *sure* to want to see *a brand new Garland product.*

Your curiosity will be well-paid!

Garland MANUFACTURING CO.
Manufacturers of RAWHIDE LOOM PICKERS • SPONGE LEATHER BUNTERS • RAWHIDE HAMMERS AND MALLETS
56 WATER STREET • SACO • MAINE

Shorts and Remnants

(Continued from page 20)

house, will be without one.

For more on "Wash and Wear" look for TI next month. November Wet Processing will give you the mostest on wash and wear, and how mills are treating fabrics for permanent finishes.

Supply Control System

"Your article entitled 'Supply Control System' on page 119 of your August issue is of interest to me. If reprints are available, I would appreciate two copies."

ELWYN THOMSEN
Berkshire-Hathaway, Inc.
Providence, R. I.

"Give 'em Both Barrels"

So as not to disappoint our Civil War fans—both of them—we give you, direct from the Athens, Ga., Courthouse Square, The Athens Double-Barrelled Cannon.

Staff Photo

One of the signs near the cannon says in part:

> This cannon, the only known one of its kind, was designed by Mr. John Gilleland, a private in the "Mitchell Thunderbolts," an elite "home guard" unit of business and professional men ineligible because of age or disability for service in the Confederate army. Cast in the Athens foundry, it was intended to fire simultaneously two balls connected by a chain which would "mow down the enemy somewhat as a scythe cuts wheat." It failed for lack of a means of firing both barrels at the exact instant. . .

► Another first for TI: We'll bet no other textile book can show readership and ad inquiries from **Lorry Raine Gayle,** Hi-Fi Songs, North Hollywood, Cal. Hi-Fi Fibers and Finishing, there's a combination for you.

► See you in November, with Wet Processing feature and also the third Annual Product Parade & Buyer's Guide—bigger and better than ever.

WHAT'S *NEW* AT THE SHOW

IS IN THE SACO-LOWELL EXHIBIT

1 **A New Improved Gwaltney Spinning Frame**

2 **New MagneTrol*— Revolutionary system of applying roll pressures for drafting without conventional weighting equipment**

3 **First showing ever, of High Speed, Color Movie—a unique study of the traveler in operation**

plus **6 new modernization changeovers**

See them in Booth 835

*Reg. U.S. Pat. Off. #2,686,940

SACO-LOWELL-SHOPS

EXECUTIVE OFFICES: 60 BATTERYMARCH STREET, BOSTON 10, MASS.
Shops: BIDDEFORD, ME., SACO, ME., SANFORD, N. C., EASLEY, S. C.
Sales Offices: ATLANTA, GA., CHARLOTTE, N. C., DETROIT, MICH., GREENSBORO, N. C., GREENVILLE, S. C., TORONTO, CANADA

Personal NOTES

ABOUT MEN YOU KNOW

Harold R. Walker has accepted a position as chief chemist with Abbeville (S. C.) Mills Corp.

American & Efird Mills, Inc., has retained **Ted Bodin** to develop yarn and color ideas in knitwear and knitted fabrics. He will make his headquarters in the company's New York offices.

Klaus W. Bahlo has joined The American Fabrics Co., Bridgeport, Conn., as chief industrial engineer. His responsibilities include research and development.

Rene Bouvet has retired from American Viscose Corp. after 19 years of service. At the time of his retirement, he held the position of assistant director of the company's technical and textile service department.

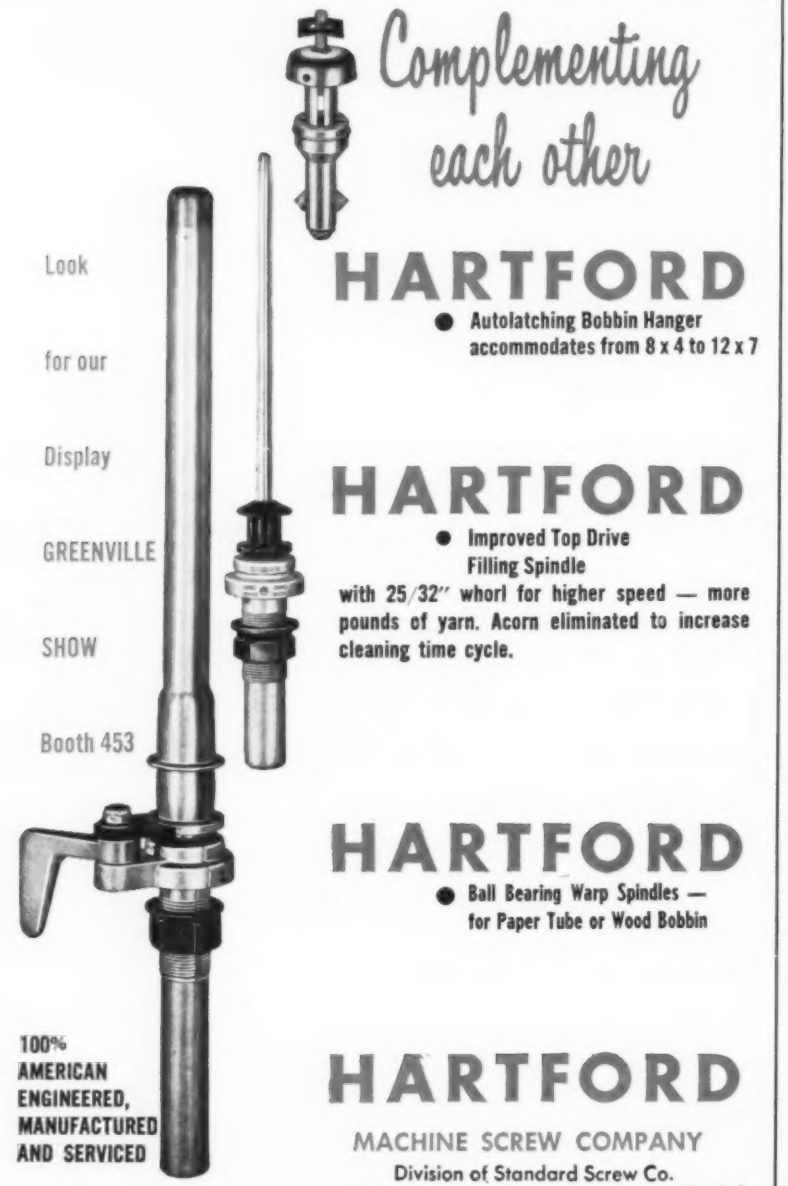
The new flagship of U. S. Steel Co.'s Pittsburgh Steamship fleet has been named the **Cason J. Callaway** in honor of Mr. Callaway, trustee, Callaway Community Foundation. He is also a director of U. S. Steel.

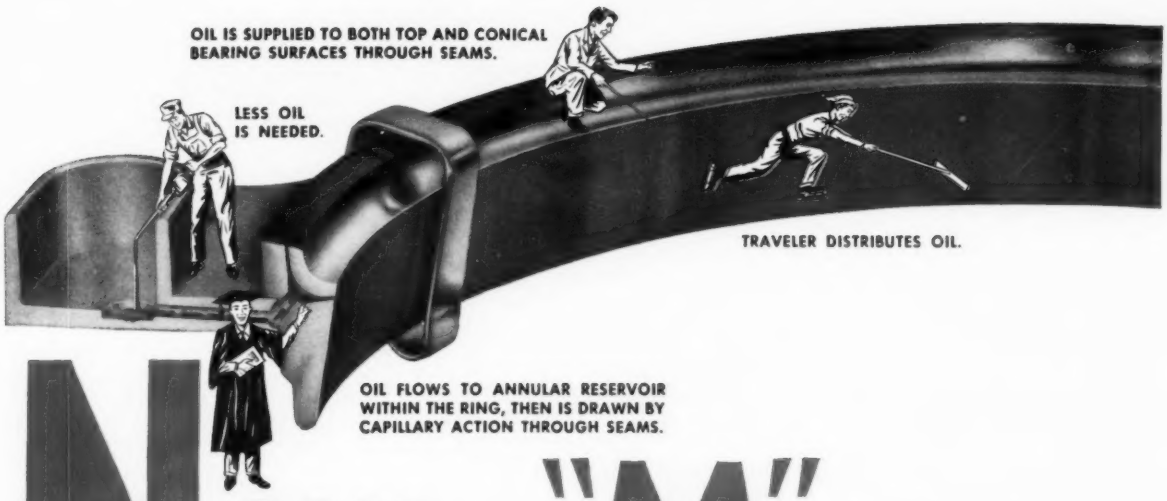
Canton (Ga.) Cotton Mills has named **Jack W. Hasson** a director. He succeeds his father, the late C. S. Hasson.

Richard Eichhorn has been named office manager of Cone Mills Corp.'s Proximity Print Works, Greensboro, N. C. As his assistant he will have **Jack Stanley.** * * * **Marion W. Heiss,** a vice-president and director of Cone Mills, has been granted a leave of absence from his active management responsibilities for health reasons. General direction of the Revolution division operations in Greensboro, one of his major management responsibilities, has been assumed by **Lewis Morris,** secretary of the company. * * * **Herman Cone, Jr.,** has been appointed manager of the Revolution plant, and **Stokes S. Rawlins** has been named business manager. * * * **Ferdinand M. Johnson** has been appointed to the newly-created post of administrator of Cone's Research and Development div., with headquarters in Greensboro. * * * **Frank Starling** is the new manager of Cone's Proximity plant in Greensboro and Edna plant in Reidsville, N. C., and **John L. Sherrill** is manager of the Pineville, N. C., plant and the Minneola plant in Gibsonville, N. C. **Raymond Kincaid** replaces Mr. Starling as superintendent of Proximity and **Jack Hughes** steps into the post of superintendent of Pineville, vacated by Mr. Sherrill. **Robert F. Crews** has been named assistant superintendent of Proximity, and **Jennings Simpson** was promoted to an assistant overseer of the plant's spinning department.

Firth Carpet Co. has named **Peter J. Austin** resident manager of the firm's new plant in Laurens, S. C.

Mohasco Industries, Inc., has appointed **Herbert Jay** to the newly-created position of director of advertising and public relations. Mr. Jay


Complementing each other
Look for our Display GREENVILLE SHOW Booth 453
HARTFORD
● Autolatching Bobbin Hanger accommodates from 8 x 4 to 12 x 7
HARTFORD
● Improved Top Drive Filling Spindle
with 25/32" whorl for higher speed — more pounds of yarn. Acorn eliminated to increase cleaning time cycle.
HARTFORD
● Ball Bearing Warp Spindles — for Paper Tube or Wood Bobbin
100% AMERICAN ENGINEERED, MANUFACTURED AND SERVICED
HARTFORD
MACHINE SCREW COMPANY
Division of Standard Screw Co.
Box 1776
Greenville, S.C.


OIL IS SUPPLIED TO BOTH TOP AND CONICAL BEARING SURFACES THROUGH SEAMS.
LESS OIL IS NEEDED.
TRAVELER DISTRIBUTES OIL.
OIL FLOWS TO ANNULAR RESERVOIR WITHIN THE RING, THEN IS DRAWN BY CAPILLARY ACTION THROUGH SEAMS.

New..."M" type HERR Conical Ring

better lubrication with less oil

SEAM LUBRICATION. A new idea . . . utilizes the principle of capillary attraction to provide more uniform lubrication than has been possible in the past. It is the outstanding feature of the new "M" type ring.

SEVERAL YEARS EXPERIENCE IN SOME OF THE LARGEST TEXTILE PLANTS HAVE ESTABLISHED THE BENEFITS OF THIS RING.

See us at the Southern Textile Exposition — Booth 267

1. **LESS OIL IS USED IN THIS NEW "M" TYPE RING** because no oil is wasted. It all goes to the bearing surfaces of the ring through the seams.
2. **TRAVELERS LAST LONGER.** As a matter of experience in mills which have been using "M" rings for the past three years, the uniformity of lubrication increases traveler life.
3. **RINGS LAST YEARS LONGER.** High speed operation for years has established the superiority of the new design.
4. **CLEANER YARN.** With better oil distribution and no leakage, mills are getting cleaner yarns.
5. **FASTER OPERATION.** Speed-up is possible without extra wear to ring and traveler. The traveler receives oil from the lubricating seams over the complete bearing surfaces of the ring.
6. **REDUCES YARN BREAKAGE.** As in all Herr Conical Rings, tension is automatically adjusted by the action of the traveler and conical design of the ring.

Write today — get facts that will make new profits possible.

The $5\frac{1}{2}$" diameter $\frac{43}{64}$" face Herr Conical Ring requires only one oil cup.

HERR® MANUFACTURING CO., INC.

310 FRANKLIN STREET • BUFFALO 2, N. Y.

FOR SPINNING AND TWISTING WORSTED, WOOLEN, RAYON, NYLON, ORLON, FIBERGLASS AND BLENDED YARNS OF ALL TYPES

RE-NEW-COAT Resurfaces, Protects and Decorates Masonry Buildings In One Application!

Re-New-Coat, with an outstanding record of performance even under severe conditions, actually anchors itself into masonry surfaces and becomes part of the structure itself. It is resistant to alkali, acid fumes, smokes, gases and other corrosive factors. Remarkable adhesive qualities of Re-New-Coat, due to presence of Devran Epoxy Resin, insure a firm tight bond to masonry.

ECONOMY — Because of the several mil thickness of dense structurally strong coating, built with only one application, there is no need for a second time-consuming application.

LONG LIFE PROTECTION — Prolonged protection against surface erosion is just one of the beneficial characteristics inherent in Re-New-Coat.

WEATHER PROTECTION — Masonry structures subjected to constant erosion caused by driving rains and chemical fumes common to industrial areas are effectively protected for years to come.

TRUSCON "RE-NEW-COAT"® with Devran Epoxy Resin actually extends the life of your buildings!

•

FIELD DEMONSTRATION

Ask for field demonstration in one or more of the attractive colors available!

TRUSCON *Laboratories*

Industrial Maintenance
Division of Devoe & Raynolds Co., Inc.
Detroit 11, Michigan

TRUSCON Laboratories
Dept. T-22, 1700 Caniff
Detroit 11, Michigan

☐ Have field engineer call for appointment.
☐ Send more information on RE-NEW-COAT at once.

Name _____
Company _____
Address _____
City _____ Zone ____ State _____

Personal NOTES ABOUT MEN YOU KNOW

has named **Monroe W. Gill** as advertising manager of the Mohawk Carpet Mills division. **Tage Fagergren** has assumed the same duties with the Alexander Smith division.

Mr. Vanden Heuvel
Appleton Woolen

Mr. McLendon
Burlington Ind.

Burlington Industries, Inc., has elected **Charles A. McLendon** a vice-president. Mr. McLendon makes his headquarters in the company's New York City offices. * * * **Russ P. Arnold** has been named manager of the Vinton Weaving Co. plant in Roanoke, Va., a subsidiary of Burlington Mills.

Ben J. Vanden Heuvel has joined Appleton (Wis.) Woolen Mills. He is receiving diversified training in the manufacturing, sales, and finance departments.

John R. Hilton and **M. H. Maner** have retired from Columbia (S. C.) Mills of Mount Vernon Mills, Inc., each having completed about 48 years continuous service with the company. **Mack D. Heaton** succeeds Mr. Hilton as superintendent, while **J. A. Gayden, Jr.,** replaces Mr. Maner as office manager.

William R. Beuret, executive vice-president of Newberry (S. C.) Mills, Inc., has temporarily assumed the duties of general manager. The post was left vacant when **James E. Britt** left the firm recently.

The American Cotton Manufacturers Institute has named **Fred M. Lyon,** president of Opp and Micolas Cotton Mills, Opp, Ala., chairman of the audit committee.

Campbell D. Garrett, vice-president of J. P. Stevens & Co., has been named president of the newly-formed Canadian subsidiary, J. P. Stevens & Co. (Canada) Ltd. Other officers are **James D. Finley,** vice-president; **Ed-**

Inquiring executive---

---saves cost of 3 Roving Frames

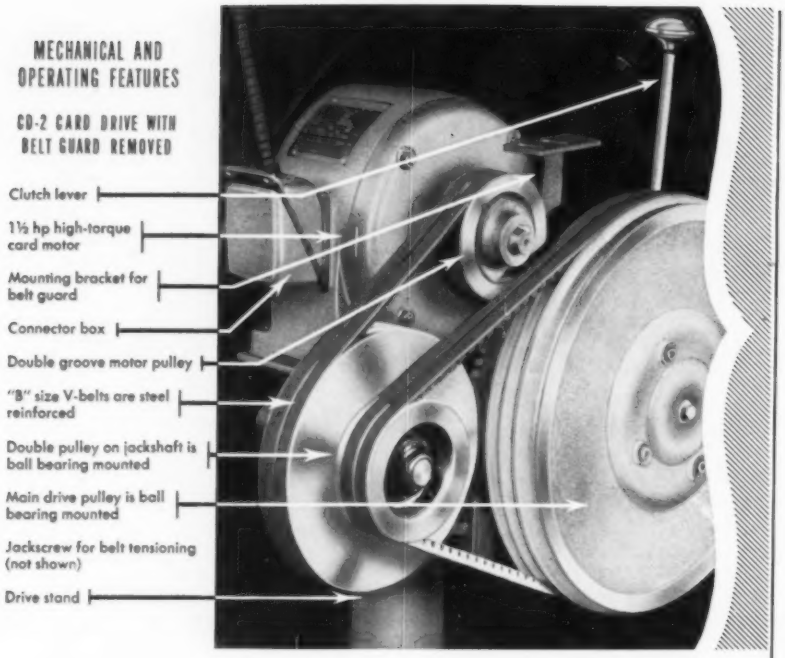
after seeing Platt M.S. 2 increase efficiency 30%

by J.L.C.

"Since observing the Platt operation," writes the Plant Engineer of one of America's largest mills, "I have re-evaluated our roving requirements and proposed production and this made a difference in roving frames required. For .90 HR, 750 spindle RPM, 75% efficiency, 1.12 T.M., 2-96 spindle frames equipped with a long draft system will be required. For .50 HR, 725 spindle RPM, 75% efficiency, 1.12 T.M., 8-96 spindle frames with conventional 3-roll draft system will be required. *Thus, we will need 10 frames instead of 13 and 960 spindles instead of 1144.* Not only should this increase the return on investment but it will also provide more efficient job assignments." These are the findings of one mill man. We invite inquiries from other executives who want *all* the facts necessary to make an informed decision.

ATKINSON, HASERICK & CO., INC.
Engineers & Agents for the World's Leading Textile Machinery
FRAMINGHAM, MASS.
Charlotte, N.C. Greenville, S.C. Philadelphia, Pa.
PLATT BROS. (SALES) LTD.
OLDHAM, ENGLAND MARKETING THE TEXTILE MACHINERY MADE IN THE WORKS OF PLATT BROTHERS & CO. LTD. DOBSON & BARLOW LTD. HOWARD & BULLOUGH LTD.

Platt Roving frames manufactured by the world's largest manufacturer of textile machinery.


MECHANICAL AND OPERATING FEATURES
CD-2 CARD DRIVE WITH BELT GUARD REMOVED
Clutch lever
1½ hp high-torque card motor
Mounting bracket for belt guard
Connector box
Double groove motor pulley
"B" size V-belts are steel reinforced
Double pulley on jackshaft is ball bearing mounted
Main drive pulley is ball bearing mounted
Jackscrew for belt tensioning (not shown)
Drive stand

ONLY SOUTHERN STATES TYPE CD-2 INDIVIDUAL DRIVE FOR COTTON CARDS OFFERS ALL THESE FEATURES

The CD-2 Individual Card Drive is the simplest, safest, and most efficient drive on the market today. It combines into one unit the features most wanted by mill men when specifying a drive for cotton cards. Here is why:

Finger-Tip Control: No changes in operating procedure. The unit is controlled by a simple clutch lever in both starting and hand stripping.

Full Speed in Seconds: A 1½ hp high torque card motor smoothly brings the card into full operation, seconds after the clutch is engaged.

Safety Engineered: All belts and moving parts are covered. Starting and idling is accomplished by the clutch lever. Stripping is done in the conventional manner.

Rugged Construction: The entire unit is built for heavy-duty service: steel main stand; cast iron jackshaft bracket and main pulley; cast aluminum cover; ball bearing construction throughout.

Easy Installation: Fits any cotton card. Minimum number of holes to drill in frame. Drive pulley, collar and clutch are preassembled and slip on shaft using existing keyway.

See your Southern States representative for all the facts, or you may write direct for Bulletin 301-a.

SOUTHERN STATES
EQUIPMENT CORP.
HAMPTON, GEORGIA

Personal NOTES ABOUT MEN YOU KNOW

ward B. Clark, vice-president; **A. J. Smith,** treasurer; and **N. C. Barnhart, Jr.,** secretary. **Frank Blake** is general sales manager in charge of the office.

John W. Sweeney has retired from his position as executive vice-president of Narrow Fabrics Co., Reading, Pa., because of ill health. **Thomas W. Handwerk,** executive vice-president of the paper products division, has been named to handle the executive duties of both divisions. **Otto E. Huber** has been named to succeed **Roy G. Manderbach** as a director and vice-president in charge of manufacturing. **Samuel R. Fry,** president, has also assumed the duties of treasurer, replacing **Leroy W. McGrath** who is retiring from that post. **William L. Rosenberger,** comptroller, has been named to the directorate vacated by Mr. McGrath.

The National Association of Wool Manufacturers has named **John H. McGowen,** Wyandotte Worsted Co., Waterville, Me., chairman of the executive committee of directors.

Two employees of the West Point Manufacturing Co. have received awards from Alabama Polytechnic Institute. **William (Billy) Walters,** who is employed in the standards department of the Shawmut (Ala.) Mills, received the Phi Psi alumni award as "the best all-round senior in Textile Technology." **Owen Duffey,** with the finishing department of Lantuck division, West Point, Ga., received the Alabama Textile Operating Executives Committee award for "outstanding leadership ability demonstrated throughout his college career and for outstanding service rendered to the textile department through his participation in campus and other activities." * * * **M. Earl Heard,** West Point's vice-president and director of research, has been named chairman of the education committee of the American Cotton Manufacturers Institute.

Fred G. Barnet has been named vice-president in charge of marketing for the textile division of Fulton Bag & Cotton Mills, Atlanta, Ga. **Lloyd O. Harris, Jr.** has been appointed general sales manager of the division.

D. J. Moffie, vice-president for industrial relations at Hanes Hosiery Mills Co., Winston-Salem, N. C., will

be a visiting professor of psychology in the Wake Forest College evening classes program for the coming school year.

J. Edward Buteau, Jr., has been named general manager in charge of manufacturing at all the Joan Plush Mills plants. His headquarters are in Lowell, Mass.

Kayser-Roth Corp. has named **Chester H. Roth** president and director of the firm which recently came into existence through the purchase of Chester H. Roth Co., Inc., by Julius Kayser & Co. **Abraham Feinberg** is chairman of the board.

Mr. Masland
C. H. Masland

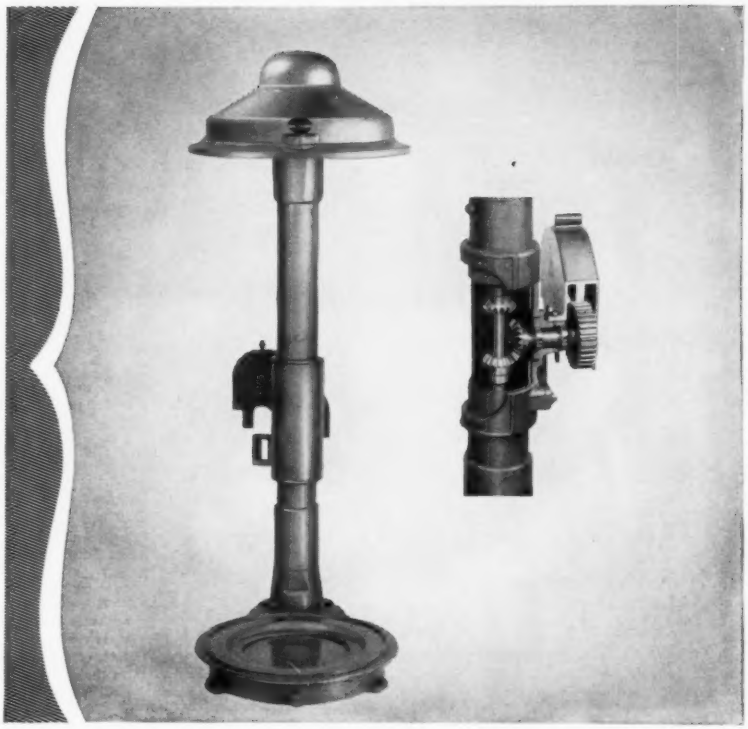
Mr. Dawson
Franklin Process

Franklin Process Yarn Dyeing div. of Indian Head Mills has named **Clinton W. Dawson** to the position of plant manager of the Philadelphia plant.

Frank E. Masland, III, vice-president and general manager of C. H. Masland & Sons, has been designated an executive reservist in the textiles and clothing division of the National Defense Reserve Force of Business and Defense Services Administration. * * * **Daniel H. Masland,** director of the Masland Spinning division, Wakefield, R. I., has assumed the added duties of director of the firm's newly-acquired operations in Brockton, Mass.

Organizational changes at the Sevier, N. C., plant of the American Thread Co. have been made known. **George Clough,** who holds the position of superintendent of wet processing, has been given the added responsibilities for warping, gassing, reeling, and grey yarn, in addition to his duties as superviser of the dyehouse and mercerizing. **Garner Hallman** has supervision of the domestics departments, as well as retaining responsibility for quilling, winding, and packing. **Clyde Fesperman** has assumed the position of general foreman of the domestics department under Mr. Hallman.

(Continued on page 279)



SOUTHERN STATES' NEW COILER LINE HAS ALL ENGINEERING AND DESIGN FEATURES WANTED BY MILL MEN

To provide mills with a premium-quality coiler, every engineering and design feature wanted by mill men has been included on the new Southern States Coilers.

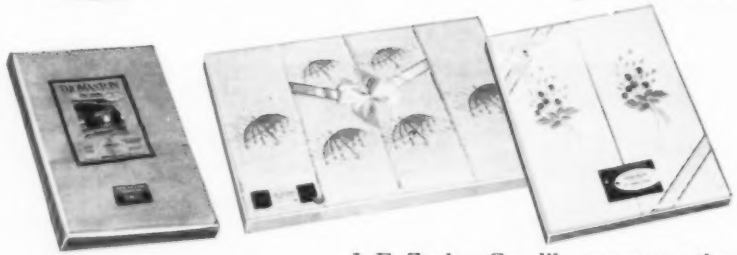
A new center adapter (see cutaway view above) permits the stand, head, and base to swivel as a unit within the adapter collar. The coiler may thus be offset for can diameters up to 20 inches and still maintain a straight gear drive take-off for coilers of all makes.

Southern States Coilers are designed for direct attachment to any make of card, left or right hand. Installation is rapid and economical. Other outstanding features of the Southern States Coiler include: ball bearing throughout—head, shaft, cantable ... cut tooth gears throughout ... tubular steel stand ... precision-ground calender rolls ... self-aligning pillow blocks on upright and calender roll shafts ... fully adjustable can table ... quickly detached coil spring roll-loading device ... and many others fully described in our Technical Bulletin 205, available from your Southern States representative or by mail direct from us.

SS
SOUTHERN STATES
EQUIPMENT CORP.
HAMPTON, GEORGIA

HAYSSEN
WRAPS AUTOMATICALLY...
with ALL PLASTIC FILMS!

J. F. Zucker Co. wraps sheets, pillow cases, towels and towel sets, etc., on their new Hayssen.



J. F. Zucker Co., like so many other Textile people, has taken advantage of new low-cost plastic films teamed with economical Hayssen automatic wrapping to give them the ultimate in finer protective packaging.

Hayssen is the only proven machine to successfully overwrap in polyethylene without cards, boxes or trays.

Hayssen offers the greatest savings in material, labor and handling while producing the smoothest, most sales appealing package.

Let our experienced packaging engineers help you with your packaging problems. Contact us today!

HAYSSEN
MANUFACTURING COMPANY
Dept. TI-10 • Sheboygan, Wis.
first in Automatic Packaging Since 1910
Atlanta • Boston • Chicago • Denver • Detroit • Jackson, Miss. • Kansas City • Los Angeles
Minneapolis • New York • Philadelphia • St. Louis • San Francisco • Montreal • Toronto • Vancouver

What the TEXTILE MILLS are doing

Employees of **Alice Manufacturing Co.**, Easley, S. C., have purchased a total of 124 houses which the company recently put up for sale. The houses were located in an area recently brought into the corporate limits of Easley.

The Clover, S. C., mills of **The American Thread Co.** have begun a new pre-blending operation that will pre-mix cotton from as many as 1,000 individual bales. Ten new openers, six blenders, and a hydraulic re-baling press have been installed in a new building constructed to house the facility.

Construction has been completed on new warehouse facilities at the tricot plant of **Beaunit Mills, Inc.**, Fountain Inn, S. C. The new extension is so constructed that the space can be converted into manufacturing areas as needed.

The name of the cotton buying division of **Burlington Industries, Inc.**, has been changed from Central Cotton Co. to Burlington Cotton Co.

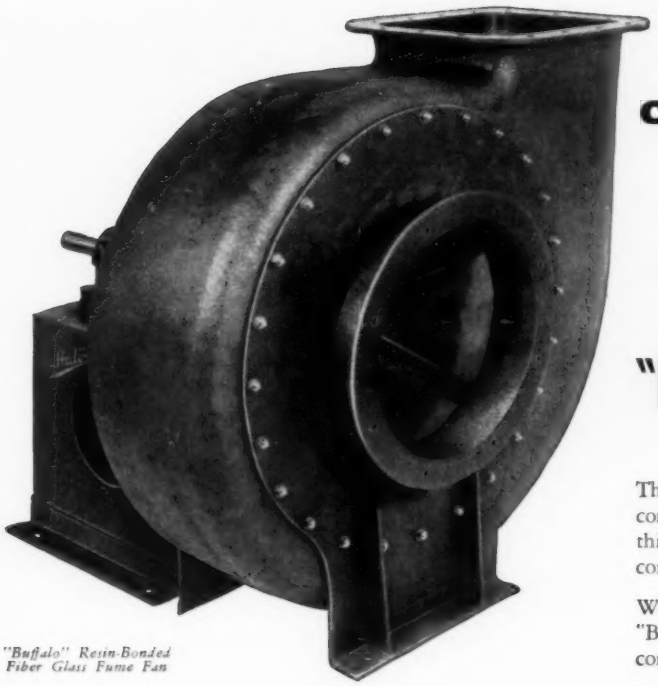
Carolina Throwing Co., Kings Mountain, N. C., has purchased machinery and equipment that is expected to double its production of nylon Fluflon yarn. Purchases include equipment for processing nylon into Saaba, a textured yarn.

Chadbourn Gotham, Inc., Charlotte, N. C., has acquired the business and leased the plants of **Carwood Manufacturing Co.**, Winder, Ga., manufacturers of men's work garments and sportswear.

Chatham Manufacturing Co., Elkin, N. C., is investigating markets with a view to expanding its output of apparel goods. Primary expansion is planned for moderate-priced staple woolens.

Cold Spring Dyeing & Processing Co., Inc., Beacon, N. Y., will henceforth be known as **Cold Spring Dyeing & Processing Corp.**

Consolidated Knitting Co., Darlington, S. C., has moved to Florence, S. C., because of a need for additional space. According to officials, the com-



"Buffalo" Resin-Bonded Fiber Glass Fume Fan

CORROSION-CONTROL PROBLEMS?

SOLVE THEM WITH THESE SPECIAL "BUFFALO" UNITS

The broad line of "Buffalo" equipment for corrosion control, plus our 80 years of engineering experience in this field, insures you of the most effective solution of your corrosive fume problems.

Whatever your specific needs, you will find the *right* "Buffalo" product with the *right* protective coating and/or corrosion-resistant parts to fill that need.

Contact your nearby "Buffalo" Engineering Representative, or write us outlining your problem. We will be glad to provide you with a prompt, practical, economical solution.

"Buffalo" Type "FG" Fume Fans provide superior chemical resistance to a wide variety of corrosives, including acids, salts, gases, organic materials. Temperature applications range up to 225°F.

The fan housing is formed of resin-bonded fiber glass. All exposed areas of the carefully-balanced steel rotor are encased in thick fiber glass. The "FG" is available in standard capacities up to 34,000 cfm at pressures to 10" static.

For full details, including chemical resistance table, write for Bulletin FI-511.

"Buffalo" Cast Iron Exhausters, widely-used throughout the chemical process industries, are engineered to operate under the most extreme corrosive conditions.

Husky cast iron housings, plus cast inlet cones with integral inlet vanes, guide air smoothly into the wheels. The result is the low-turbulence air flow inherent in this high-efficiency design. Non-overloading is insured, regardless of system pressure.

Three arrangements are available: direct motor drive, separate belt drive or a package unit with adjustable pitch V-belt drive and motor mounted on adjustable base rails.

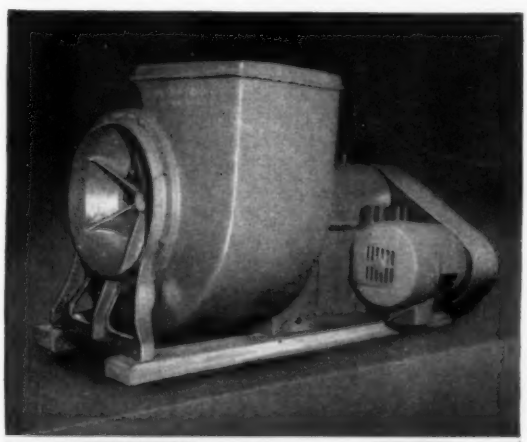
For full information on "Buffalo" Cast Iron Exhausters, contact your nearest "Buffalo" Representative or write us direct.

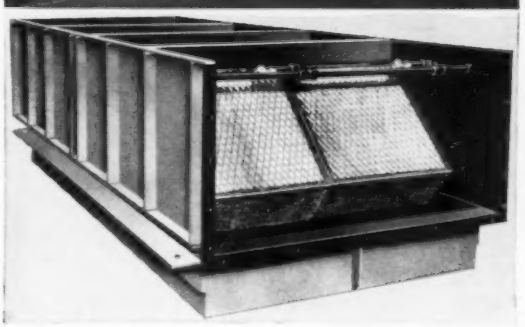
"Buffalo" Gas Absorbers are designed for highly efficient removal and/or recovery of soluble gases, vapors and mists from exhaust systems before discharge to the atmosphere. Absorption is accomplished when the contaminant is completely in solution. This is accomplished by means of an absorbent liquid sprayed on a series of fiber cells.

Field performance tests prove that efficiency of "Buffalo" Gas Absorbers ranges up to 99.8%. Applications fall into two categories: removal of low concentrations from stack gas effluents for prevention of atmospheric pollution, and the absorption of process or off-gases containing sufficient material to make reutilization economically feasible.

Bulletins AP-225 and AP-2500 will guide you to the proper "Buffalo" Gas Absorber to solve your contamination problem. Write for it today.

EVERY "BUFFALO" PRODUCT FEATURES THE "Q" FACTOR — the built-in Quality which provides trouble-free satisfaction and long life.





Top "Buffalo" Cast Iron Exhauster

Bottom "Buffalo" Gas Absorber

BUFFALO FORGE COMPANY

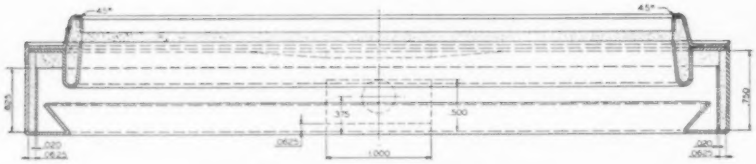
BUFFALO, N. Y.

Canadian Blower & Forge Co., Ltd., Kitchener, Ont.

VENTILATING • AIR CLEANING • AIR TEMPERING • INDUCED DRAFT • EXHAUSTING
FORCED DRAFT • COOLING • HEATING • PRESSURE BLOWING

Ragan's NEW
MARATHON TWISTER RING

5½" x 43/64" DEEP



cross section — ring and holder

See them running
ON MEADOWS NEW FRAME BOOTH 136 . . . MAIN FLOOR

- Latest development in rings . . . nothing like it ever before.
- Constant circulation of oil.
- Capable of extremely high speeds, for extended periods.
- Ring runs cooler because hollow.
- Oil once a week while running.
- No throw-out beneath ring rail; lowers lubricating cost, cuts floor cleaning.
- Easily installed on top of ring rail.
- Reasonable initial cost . . . long run economy . . . big return on investment.

Ragan Rings

RAGAN RING COMPANY • 901 S. Main St., East Point, Georgia

The South's oldest manufacturer of all styles of spinning, common and vertical twister rings.

REPRESENTATIVES: H. B. "Booch" Askew, P. O. Box 424, Griffin, Ga. • Chalmers H. White, Route 6, Box 644, Charlotte, N. C. • L. O. Talley, P. O. Box 1169, Mexia, Texas • William R. Fox, P. O. Box 380, Providence, R. I.

What the TEXTILE MILLS are doing

pany plans to triple operations. It expects to employ approximately 40 persons when full-scale production gets under way.

The Hazleton, Pa., plant of **Duplan Corp.** has been closed. The move is not expected to affect operations at the firm's throwing plant in Kingston, Pa.

A new company, **Duro Textile Printers,** has been organized in Fall River, Mass. Occupying the former River Mills plant, the firm specializes in multi-color roller printing of cotton, nylons, and synthetics, as well as all types of lining materials.

Acquisition of a new building has increased the mill space of **Faron Full Fashion Knitting Mills, Inc.,** Mount Holly, N. J., to an estimated 20,000 sq ft.

Hazel and Wright Knit Hosiery Mill, Inc., has begun operations in the Bellemont plant, recently purchased from **Burlington Industries, Inc.,** in Burlington, N. C. Specializing in the finishing of men's argyle hosiery, the initial operation was expected to employ about 30 workers with provisions made for future expansion. The mill is operated by W. S. Foster and associates. The finishing plant which Mr. Foster formerly operated in Spruce Pine, N. C., has been moved to Burlington.

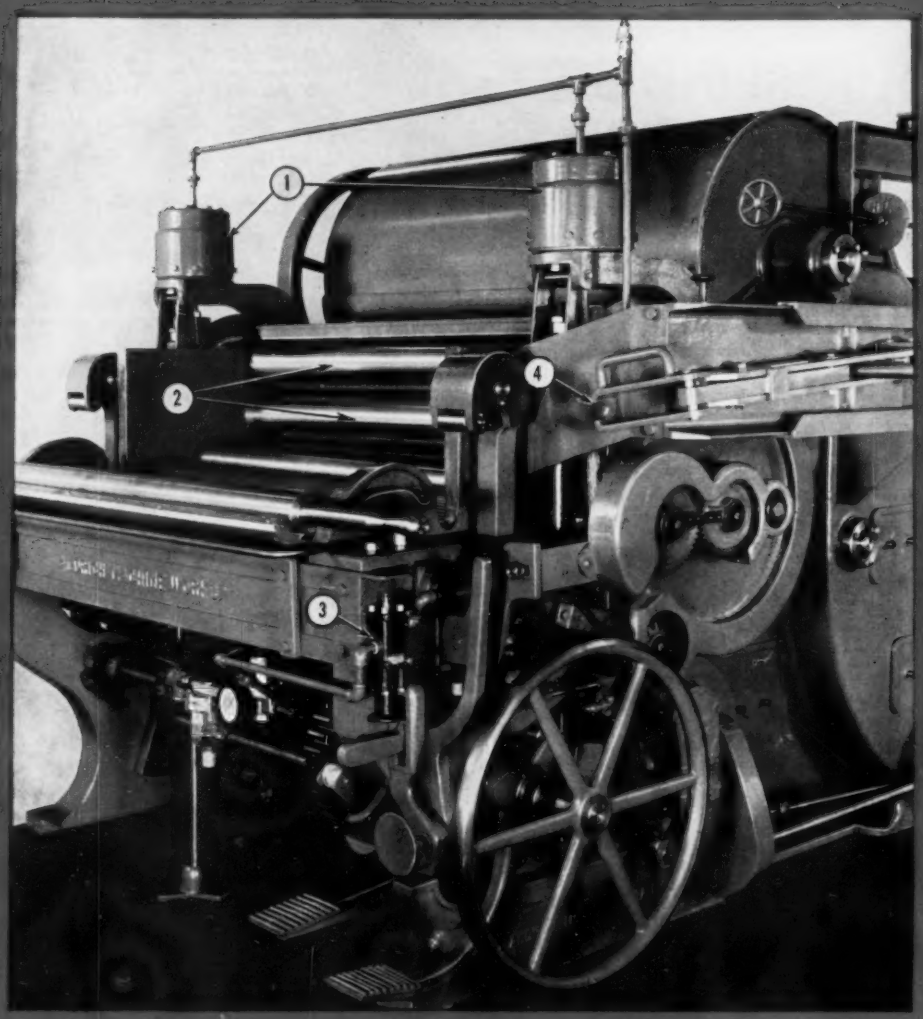
Green River Mills, Inc., Tuxedo, N. C., will close as soon as processing of current material is completed.

Huntley Hosiery Co., Inc., Charlotte, N. C., has changed its name to **Huntley Knitting Mills, Inc.** The new corporate name covers both sweater and hosiery production.

A new high pile fabric entitled "Vision" has been placed on the market by **La France Industries, Inc.** The new fabric simulates mink. It is anticipated that it will be produced in three colors.

Seymour (Ind.) Woolen Mills, Inc., has by corporate action amended its Articles of Incorporation, changing its name to **Louisville Textiles, Inc.**

The spinning equipment in the former United Yarn division plant at Brockton, Mass., has been acquired



The ALDRICH HIGH COMPRESSION CALENDER

1. Diaphragm air cylinders, without pistons or stuffing boxes, apply accurately adjustable pressures up to 12,000 pounds on the calender rolls.

2. Meehanite calender rolls, which are stronger than grey cast iron, and smoother, since there are no blow holes in Meehanite castings. These rolls are carried on roller bearings, made to fit standard calender rolls with full-sized journals to permit easy installation and provide maximum carrying capacity.

3. Valve which releases pressure on the rolls each time the calender stops. This is very important on some synthetics.

4. Pneumatic Lap Pin Extractor which applies a pull of 800 pounds to the pin to remove it from the densest lap.

AldricH MachinE WorkS

Greenwood, South Carolina

ARE YOUR SPINDLES CUTTING YOUR PROFITS

and impairing your position as a competitive yarn producer?

Your profits are unnecessarily cut by excessive labor, production interruptions and related costs if your answer is NO to any of the following questions:

- Do your spindles run indefinitely without requiring regular re-plumbing? ☐
- Can your spindles be plumbed and centered to rings with spindles at rest? ☐
- Will your spindles run several years without blackening oil or grease due to fretting corrosion and without increasing power consumption towards end of lubrication cycles? ☐
- Can they be cleaned and re-lubricated in one simultaneous operation within about 30 seconds per spindle or 2½ to 3 man-hours per frame? ☐
- Can you clean and lubricate your spindles without removing them from the spindle rail and, except for spindle blade, without removing any insert, bearing or other part? ☐
- Have you checked and compared your spindle operating cost per cleaning & re-lubrication cycle (3-5 years) incl. loss of man-hour, production etc. and do you consider the result competitive? ☐

It is no longer sufficient that your spindles "do the job", (an expression often heard) — *it is highly important HOW WELL the job is done.*

As crucial as the efficiency of your spindle operation is the grade of performance at present and future speeds and the yarn quality produced. A modern spindle must have a cushioning system which maintains at all times and speeds a harmony between the unbalances of the yarn body and the dampening resistance. Only that spindle which can produce highest quality yarn at efficient speeds and earn a positive YES to above questions is qualified to meet your future needs.

It will be a turning point to higher profits, better yarn and an exciting job filled with new interest in low cost production efficiency when you act to get the facts about the

SMM ROLLER BEARING SPINDLE *

GUBELIN INTERNATIONAL CORPORATION
MOUNT KISCO, N. Y.

Southern Representative: H. Phil Worth, Greenville, S. C.

* made by: Spindles Motors & Machines Ltd. Uster/Switzerland.

What the TEXTILE MILLS are doing

by **C. H. Masland & Sons.** The unit will be under the direction of Daniel L. Masland, who also directs the Wakefield, R. I., division.

A 26,000 sq ft addition to **Minnette Mills, Inc.,** Grover, N. C., is under construction. The building will house the firm's tufted and tailored bedspread division.

Morgan Cotton Mills, Inc., has announced that it will begin operations in Mill No. 6 in McColl, S. C., before the end of the year. Operations have begun in Mill No. 1. The two mills were purchased recently from McColl Mills.

A new firm, designated **New England Worsted Mills,** has been formed by **Anglo Fabrics Co.** to spin worsted yarns for coatings, suitings, and dress fabrics. Operations are slated to begin shortly in Webster, Mass.

The Hawkinsville, Ga., division of the **Opelika Manufacturing Corp.** is constructing a new building to house a sewing plant in which towels made by the division will be hemmed. When the new facility is completed, an estimated 40 to 60 employees will be added to the plant payroll.

A continuous bleach range will be installed in a newly-completed building at the Sayles-Biltmore Bleacheries', Biltmore, N. C., plant of **Sayles Finishing Plants, Inc.**

J. P. Stevens & Co., Inc., is installing air-conditioning equipment in the first floor weave room of the Seneca, S. C., plant. * * * A new Stevens subsidiary, known as **J. P. Stevens & Co. "Canada" Ltd.,** has been formed with headquarters at 395 Mayor St., Montreal, P. Q.

Theme Hosiery Co., Los Angeles, Calif., is in the process of liquidation and expects to wind up business by the end of the year.

The operations of **Max Pollack & Co., Inc.,** are being transferred from Groton, Conn., to Gastonia, N. C., in what is virtually a consolidation with the parent company, **Threads, Inc.** The move is expected to create about 60 new jobs at the Gastonia location.

Modern lighting transformers have been installed at the Stark Mill of

Fabric wall covering provides beauty and utility with Dow Latex in the coating.

Dow Latex makes fabric wall coverings easy to clean, durable, colorfast

Fabric wall coverings available in many new designs and colors.

Let Dow Latex help you meet today's big demand for wall coverings that are as durable as they are decorative!

With Dow Latex you'll find it easy to overcome shortcomings in the fabric substrate and improve printability and embossability. Here is the coating that makes wall coverings easy to clean, durable and colorfast . . . without introducing problems of aging, paste resistance and adhesion to the fabric. Best of all, with Dow Latex it costs you less to add the features that clinch sales.

A Dow Latex may be the answer to your textile coating problems. Call your nearest Dow sales office or write today to THE DOW CHEMICAL COMPANY, Midland, Michigan, Coatings Sales Dept. 2168A-1.

LATEX T.M.

YOU CAN DEPEND ON DOW

Protect your profits with EXACT WEIGHT® SCALES

Specialized models for the textile industries

SHADOGRAPH SCALES

Fast, visual accuracy *plus* proved dependability are among the many advantages offered by Shadograph Scales for controlling quality and costs. These Exact Weight precision instruments provide indication with a light projection system that greatly increases sensitivity and accuracy. Shadow-edge weight indication removes the possibility of parallax readings. Available in avoirdupois or metric graduations.

Model 4104-A is designed for weighing samples in conjunction with the Sheffield Micronaire testing machine. Dial is graduated with 1 inch of indicator travel equal to 15 grains, over or under.

MODEL 4104-A

Model 4204-B is widely used in color control and Micronaire testing. Choice of commodity receptacles. Other Shadograph models for yarn count, Pressley-fractionation and laboratory use.

MODEL 4204-B

MODEL 103

CENTER TOWER SCALES

Exact Weight Scale Model 103, for checking cone and spool weight, has dial graduations to 1/16 ounce. One inch of indicator travel equals one ounce. Capacity 3 pounds. Models available for roving weight, dyestuffs and other weighing operations.

Visit us at the Greenville Show

Exact Weight SCALES

THE EXACT WEIGHT SCALE CO.
922 W. FIFTH AVE., COLUMBUS 8, OHIO
In Canada: P.O. Box 179, Station S, Toronto 18, Ont.

Sales and Service Coast to Coast

Find us in your local 'Yellow Pages'

BETTER QUALITY CONTROL . . . . . BETTER COST CONTROL

What the TEXTILE MILLS are doing

U. S. Rubber Co., Hogansville, Ga. The new system is considered necessary as a safety measure, as well as from the production standpoint. * * * A large new air compressor has been installed at the Stark Mill. The compressor is said to be capable of furnishing enough air pressure for both Stark and Asbeston, even if all auxiliary pumps should fail at the same time. * * * The company has announced plans to enlarge production facilities in textile division plants at Hogansville; Shelbyville, Tenn.; and Winnsboro, S. C. At Hogansville, the expansion will be for a more comprehensive line of Asbeston products. New equipment for the production of industrial synthetic products will be installed at Shelbyville, and at Winnsboro new machinery will be used to produce commercial quantities of industrial fabrics. * * * A company-wide suggestion plan has been instituted in the Hogansville plants. The plan provides a new formula for computing awards, higher awards, and a speedier system for making the awards.

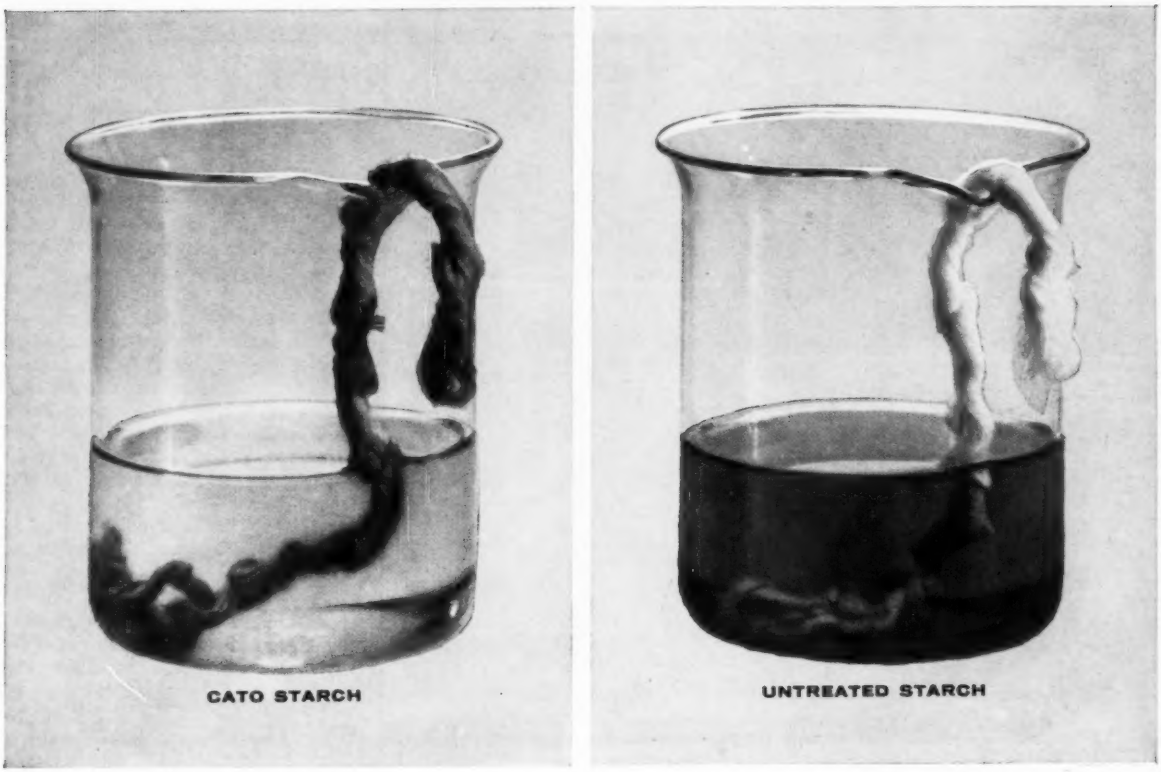
Dominion Textile Co., Ltd., Montreal, Can., is sponsoring the award of two scholarships, one for cotton manufacturing and the other for chemistry and dyeing, at the St. Hyacinthe Textile Institute. The awards, constituting the first such scholarships to be granted on a merit basis at the school, will be given beginning next June to the high-ranking first-year students in these categories. They will receive the balance of their four-year terms fully paid.

Two hundred of the latest model 50" X-2 looms have been installed in the weave room of the Lanett, Ala., mill of **West Point Manufacturing Co.** The looms will produce fabrics for the apparel trade. * * * A new warehouse, having a storage capacity of 5,700 bales of cotton, is being constructed at the Fairfax, Ala., mill. * * * The South Carolina charters of Equinox and Wellington mills, both in Anderson, S. C., have been surrendered and the plants will now be operated as divisions of West Point, according to President J. L. Lanier.

A new 30,000 sq ft weave shed has been constructed by **Glenwood Mills,** Easley, S. C., in line with the general modernization program recently instituted there.

CATO®

CATIONIC STARCH FOR WARP SIZING



IODINE TEST proves greater starch affinity

A simple experiment. Take 100 ml. of solutions of Cato and corn starch at 0.005% concentration. To each add a 1 gram strand of any anionic yarn: cotton, wool, viscose, dacron, or others including blends. Boil for a few minutes. Cool and allow strands to drain as shown above. Now add drops of iodine to the strands and their respective solutions.

What happens?

The blue of the iodine test for starch proves the much greater affinity of Cato to anionic yarns—due to its patented cationic molecular structure. Showing how Cato promotes better adhesion, reduces shedding and improves weaving in warp sizing.

Interested? We'll be glad to supply trial quantities and have one of our textile specialists demonstrate in your plant.

National

STARCH PRODUCTS INC.

750 Third Avenue, New York 17 • 3641 So. Washtenaw Avenue, Chicago 32 • 735 Battery Street, San Francisco 11

Top — Fisher boxes mounted on loom stand over loom.
Left — Bottom view of box. Right — special loom stand.

NEW FILLING HANDLING SYSTEM

Fisher Manufacturing Company's new filling handling system, components of which are shown above, offers a great saving of time and labor to your mill.

The yarn remains in the same box from the time it leaves the spinning frame until it is used at the loom, eliminating the excess handling of the old method.

A metal rod replaces the customary wooden one, where the guard is a combination guard and runner. This makes for smoother operation and a more rugged, longer lasting box. (U. S. Patent Pending)

The box is placed slanted on the specially designed loom stand which requires little space and holds two boxes of filling. The front end of the box is open, which permits trash to fall free as it works to the front with the filling.

The rods on the boxes are smooth, allowing the operator to safely handle them in any manner.

Fisher manufacturers all types of boxes and trucks for transporting them. Let us completely survey your mill and recommend custom-made materials handling equipment tailored to your particular situation.

FISHER MANUFACTURING COMPANY

P. O. Box 244 Hartwell, Ga.

SUPPLIERS News

WHAT THEY ARE DOING

Ben W. Wiesen has joined the fibers division of **American Cyanamid Co.** as a sales and merchandising representative for Creslan acrylic fiber to the knit goods field. His headquarters will be in the company's New York City offices.

Jay Kaner has accepted a position with **American Enka Corp.** as manager of advertising and sales promotion. * * * Production of nylon has begun in the company's new Enka, N. C., multi-million dollar plant. The expanded operation is expected to almost triple the production of fine denier nylon textile yarns. Deniers from 15 to 100 will be produced in both semi-dull and dull lusters in the modern plant.

William R. Siems is the new advertising manager of **Bemis Bro. Bag Co.** He succeeds Garth D. Salisbury who resigned.

A. E. Bardwell has been appointed to head up the enlarged national account sales program inaugurated at Brainerd Steel Division, **Sharon Steel Corp.** The program is designed to better serve textile strapping customers having many plant locations throughout the country.

The Chattanooga Yarn Association has announced the election of George S. Bryan of Dixie Mercerizing Co. as treasurer to fill the unexpired term of the late Col. R. D. McDonald.

Recent executive changes in **The Chemstrand Corp.** include the appointment of R. E. Smith as executive director, Acrilan, and W. H. Hindle as director, applications research. The coordination committee has been discontinued and replaced by an advisory counsel to the president.

Everett F. Waltman has been appointed district representative for **T. B. Wood's Sons Co.** in the New Jersey-New York area with headquarters at New Brunswick, N. J.

William F. Zunker has been named sales manager of the Industrial Boiler Div., **Cleaver-Brooks Co.** * * * John Nash has been appointed sales man-

PAINT BULLETIN

FROM INDUSTRIAL FINISHES DIVISION
MINNESOTA PAINTS, INC.

Discuss your paint problems with us ... Booth 325 Southern Textile Exposition

Conditions in your plant govern selection of machinery paints. Quick-drying regular, epon and rubber base machinery enamels are available. However, it is good to be aware of the performance qualities of paints specially formulated to meet textile mill conditions. Here are some pertinent facts about modern textile machinery coatings:

UNDER SEVERE CONDITIONS of humidity, acid or alkali, it costs less in the long run to use a dependable brand of paint that will resist mildew, steam, rust and corrosion. Your machinery enamel should be a type that is easily cleaned, that resists fading, bleaching, yellowing. The paint must be resilient enough to withstand machine vibrations and stresses. And this flexible quality must last a long time. Some types of paints become brittle with age and exposure to light. When this happens, protection and beauty is lost. It will then, of course, deteriorate rapidly.

A PROVEN TEXTILE MACHINERY FINISH, widely used throughout the industry, is Minnlite Fumeproof Dado and Machinery Enamel. It is highly recommended for use on most machinery, including continuous dye ranges, washers, mercerizers, jay boxes, etc. This tough, rubber base finish is highly resistant to mildew, steam, rust, acids and chemicals. Properly applied with a rubber-base rust-inhibitive primer, it is an excellent retardant to corrosion. Only a mild solution of a common detergent, such as Cleanall, is necessary to keep the tight, non-porous coating bright and clean. Minnlite Fumeproof Enamel also has strong color retentivity, keeps its vital flexibility indefinitely.

COLOR ENGINEERING. Safety through color is made possible by Minnesota Paints' broad selection of standard machinery colors. Color engineering in your plant has the dual purpose of promoting maximum plant safety and efficiency, and reducing fatigue. Eight standard textile machinery colors are available in Minnesota Paints' Machinery Enamels along with specially designed "eye rest" colors. These colors harmonize with existing plant colors without detracting from the effectiveness of safety and danger zoning. Brighter warning colors are also available in Machinery Enamel for moving parts and for in-plant vehicles.

If the color or shade you have in mind isn't available in stock, Minnesota Paints can readily custom-blend it for you at the Atlanta plant.

Experts agree there is a *right* paint for every job . . . and in the long run, it costs you less to put the right paint on each surface.

Fill out and send us the coupon below for a FREE Paint Survey. One of our men with practical experience in the application of paints in the textile industry will survey your plant, at your convenience, and recommend the *right* paint for each of your particular needs. *There is absolutely no obligation for this service.* And it could bring you valuable returns in better plant appearance and in lower maintenance costs.

Free Paint Recommendation Survey

MINNESOTA PAINTS, INC.
1104 Third Street So. • Minneapolis, Minn.

Gentlemen: ☐ Please have one of your industrial paint experts call me to arrange for a FREE Paint Recommendation Survey of my plant.

☐ Please send me a free color card showing the exact shades available in Minnesota Machinery Enamel.

Name _____ Title _____

Company _____ Phone No. _____

Address _____ City _____ State _____

Minnesota PAINTS

MINNESOTA PAINTS, INC.

PLANTS AT: Atlanta Minneapolis Ft. Wayne Dallas GENERAL OFFICES: 1101 Third Street South, Minneapolis, Minnesota

SUPPLIERS News
WHAT THEY ARE DOING

ager of the Progress and Monitor boiler division of Cleaver-Brooks Co.

E. F. Houghton & Co. has purchased a five-acre industrial plot in Carrollton, Ga. Buildings will be modernized and enlarged for use as a manufacturing and warehousing facility and equipment will be installed for blending, compounding, and treating industrial oils and chemicals for the textile and other industries. * * * A. J. (Steve) Andre has been named general manager of the southern division of E. F. Houghton. He replaces W. H. Brinkley, who died recently.

Universal Winding Co. has announced the following orders on the export market for Unifil loom winders: Boras Wafveri AB of Boras, Sweden, purchased the winding machines for application to Draper X-2 looms. Olympia Manufacturing Co., Ltd., whose initial order was placed in December, 1957, recently placed a repeat order. The Unifils are being installed on Northrop looms in the company's new Crest Mill at Rochdale, England. This marks the first Unifil installation on a Northrop loom.

Mr. Mancke
Fletcher Works

Mr. Turner
R. Michael Turner Co.

Stedco Southern, Inc., subsidiary of **Steel Heddle Manufacturing Co.**, has appointed **R. Michael Turner Co.**, Clinton, S. C., as its exclusive sales representative for South Carolina and Augusta, Ga.

Charles J. Mancke has been named director of sales engineering for the textile division of **Fletcher Works, Inc.** In his new capacity he will concentrate on field contact with mills using looms, providing what Fletcher describes as "on-the-spot engineering service to solve production problems and increase loom efficiency."

Jenkins Metal Shops, Inc., has announced their appointment as distributors in the southeastern area for the **Burke & Co.** Sound Detector, which locates internal defects in moving machinery.

Joel Hurt & Co. has acquired the interests of the Crompton-Richmond group in Crompton-Richmond-Joel Hurt Co. to become sole owner of the factoring firm. The firm will be known as **Joel Hurt Factors, Inc.**, and home offices will continue in the Glenn Building, Atlanta, Ga.

Production has begun in the second manufacturing plant of **Kessler Chemical Co.** in Philadelphia, Pa. Officials state that the new facility doubles plant capacity and provides improved production units for the company's products.

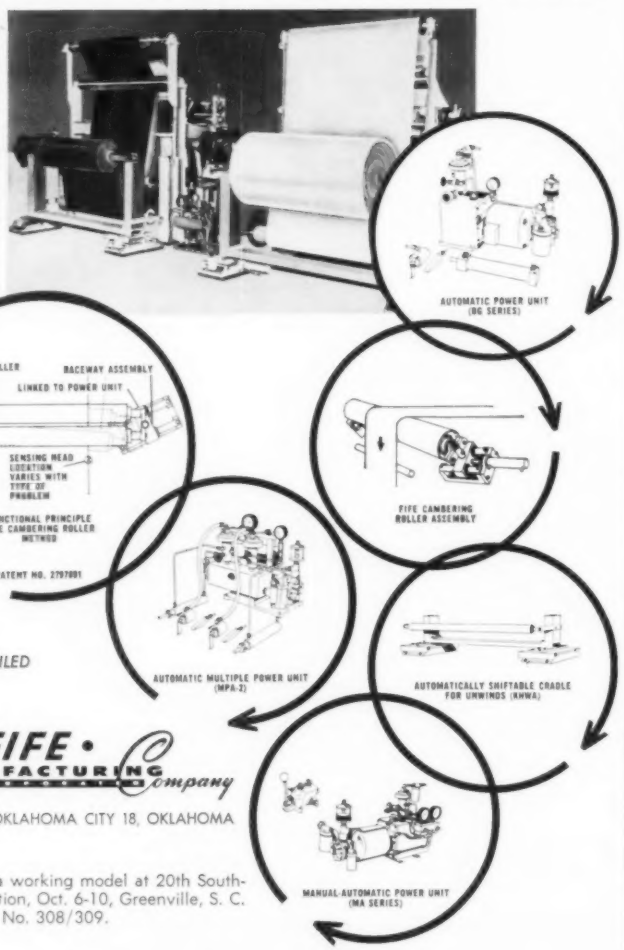
Carbert Manufacturing Co., Inc., has appointed **Karl H. Inderfurth Co.**, Charlotte, N. C., to handle Poly Bag Sealer sales in North and South Carolina, Virginia, Alabama, Georgia, and Tennessee.

● FIFE Automatic Cloth Guiding Equipment insures the cloth selvage engaging tenter pins or clips accurately, evenly . . . and smooth accurate positioning of tenter rails automatically, hydraulically.

● You get maximum positioning accuracy of any cloth in finished plant operations . . . accurate selvage edge printing . . . waste elimination in trimming or slitting . . . more efficient inspection . . . strictly accurately wound rolls for customer delivery because . . .

FIFE SOLVES CLOTH GUIDING PROBLEMS!

Two FIFE Automatically Shiftable Cradles and Model MPA-2H Power Unit effect automatic guiding by laterally shifting the let-off rolls of two adjacent machines at Holliston Mills, Kingsport, Tenn.


AUTOMATIC POWER UNIT (BG SERIES)
CAMBERING ROLLER
RACEWAY ASSEMBLY
LINKED TO POWER UNIT
15° TO 25°
SENSING HEAD LOCATION VARIES WITH TYPE OF PROBLEM
FUNCTIONAL PRINCIPLE FIFE CAMBERING ROLLER METHOD
PATENT NO. 2797001
FIFE CAMBERING ROLLER ASSEMBLY
AUTOMATIC MULTIPLE POWER UNIT (MPA-2)
AUTOMATICALLY SHIFTABLE CRADLE FOR UNWINDS (KHWA)
MANUAL-AUTOMATIC POWER UNIT (MA SERIES)

WRITE FOR DETAILED INFORMATION

• FIFE •
MANUFACTURING Company

P. O. BOX 9815 OKLAHOMA CITY 18, OKLAHOMA

ON DISPLAY . . . a working model at 20th Southern Textile Exposition, Oct. 6-10, Greenville, S. C. Visit FIFE's Booth, No. 308/309.

SEYCO QUALITY • SEYCO SERVICE

TEXTILE CHEMICALS FOR ALL NATURAL AND SYNTHETIC FIBERS

SEYCO Warp Sizes—Compounds carefully blended to meet requirements for softening, lubrication, adhesion; adding where needed antiseptics, anti-foams, anti-sticking agents.

SEYCO-WAX—Specially blended natural and synthetic waxes for slashing and finishing.

SEYCO SYNCOTE—Surface lubricants for weaving of synthetics.

SEYCO-PEN—Wetting agents, penetrants and dye assistants for all dyeing conditions, including vats and sulfur dyes. Nonionic and anionic. Levellers and retardents.

SEYCO-TERGE—Liquid, flake and solvent-blended detergents and scouring agents.

SEYCO-BRITE—Kier and bleaching assistants, for production of maximum whiteness and absorbency.

SEYCO-MERCE—Mercerizing assistants, both cresylic and non-cresylic bases; plisse penetrants.

SEYCO-VEL—Softeners to produce any variety of hand: full, raggy, surface-smooth. Anionic, nonionic, cationic.

SEYCO-LUBE—Fiber and yarn lubricants for cotton, rayon and synthetics.

SEYCO-SAN—Agents and finishes for production of Sanforized cloth.

SEYCOL—Soluble finishing oils and softeners.

SEYCO Products for yarn conditioning, rewetting, absorbency, cord polishing, shuttle dressing, sequestrants, etc.

NIAGARA
TWIST-SETTER
(PAT.)

The NIAGARA TWIST SETTER, having no moving parts inside the machine, has practically no upkeep cost. Can condition 3,000 pounds per hour of filling on bobbins. Minimum space required.

SEYCO WARP LUBRICATOR

The SEYCO WARP LUBRICATOR mounted on the slasher frame gives a uniform surface application of oil or wax lubricants which materially improve weaving efficiency.

WRITE FOR FREE TECHNICAL BULLETINS

FOR INFORMATION AND FAST SERVICE, CALL COLLECT TO OUR ATLANTA OFFICE OR YOUR LOCAL REPRESENTATIVE

Atlanta, Ga.
W. H. Cutts, ME 4-2742
Dave Meriwether, CE 3-7408
John Seydel, CE 3-7449

Concord, N. C.
Walt Whisnant, ST. 2-5816

Gastonia, N. C.
R. P. Anthony, UN 7-7408

Greensboro, N. C.
Eddie Harrison, BR 3-0569

Greenville, S. C.
A. Welling LaGrone, CE 5-3993

Opelika, Ala.
Bob Mills, SH 5-3736

Rome, Ga.
T. Howard McCamy, 2-2057

Spartanburg, S. C.
Francis deLoach 2-4919

Greer, S. C.
Baxter Hemphill, TR 7-4640

AGENTS:

Dallas, Texas
O. T. Daniel

Providence, R. I.
Standard Mill Supply

Havana, Cuba
Robea, S. A.

Medellin, Colombia
Restrepo-Herzig

SEE THIS EQUIPMENT IN
BOOTH 238
AT THE GREENVILLE SHOW

Headquarters for textile chemicals

SEYDEL-WOOLLEY & CO.

748 RICE STREET, ATLANTA, GEORGIA
Phone TRinity 6-5886

SUPPLIERS News
WHAT THEY ARE DOING

WEST POINT FOUNDRY AND MACHINE CO. has moved its foundry operations into this new building. Plans are to concentrate all manufacturing operations at this location.

Frederick A. Gilbert has been elected a vice-president of **Food Machinery and Chemical Corp.** He is in charge of FMC's inorganic chemical operations which include Becco Chemical Division, Westvaco Chlor-Alkali Division, and Westvaco Mineral Products Division. * * * Fred C. Hoehn and John S. Robinson have been appointed sales representatives for Becco Chemical Division. Mr. Hoehn's territory includes the Midwest, while Mr. Robinson has been assigned to the New England territory.

Norfleet M. Gibbs has joined the southern sales staff of Fiber Sales and Service, National Aniline Division, **Allied Chemical Corp.** He makes his headquarters in Greensboro, N. C.

The New York City branch office and the eastern regional office of **American Air Filter Co.** are now located at 292 Madison Ave.

American Cyanamid Co. has opened new sales headquarters at 111 W. 40th St., New York City. The new offices will be occupied by the Fibers Division and the Textile Chemicals Department of the company's Organic Chemicals Division.

American Research and Testing Laboratories, Inc., has been established in Pawtucket, R. I. The new consulting organization specializes in textile problems. It is headed by W. George Parks as president of the firm and director of the laboratories. Dr. Parks is also head of the Department of Chemistry and chairman of the Committee on Research at the University of Rhode Island.

A new unit, known as the Fibers Division, has been established by **American Viscose Corp.** Henry H. Bitler has been promoted to the newly created office of vice-president and general manager of the division. Paul E. Hill is the director of manufacturing and George L. Storm has assumed the position of vice-president and director of sales. * * * Malcolm V. Macfarlan has been named sales manager of the Fibers Division. John C. Wilmerding was appointed a staff assistant to handle special assignments. At the same time, Norman A. Cocke, Jr., became sales manager for all rayon fibers except tire yarn. * * * American Viscose plans to discontinue operations at its Roanoke, Va., plant where continuous filament yarns are manufactured. No specific dates have been established, but Henry H. Bitler, vice-

NON-FLUID OIL
TRADE MARK REGISTERED

PREVENTS CARD WEAR

Thousands of users of NON-FLUID OIL have found that it is not only the best textile lubricant but also the most economical.

Drip-less, waste-less NON-FLUID OIL is less expensive to use because it stays in bearings and off card clothing - giving better lubrication. It prevents wear and maintains accurate card adjustment.

NON-FLUID OIL, the ideal comb-box lubricant - prevents heating and lubricates dependably - lasting four to six times longer - whereas ordinary oil leaks out and wastes, getting on to card clothing and cotton.

With ordinary oil, cards wear and lose adjustment quickly, causing uneven sliver from cards which gives you trouble all through the mill.

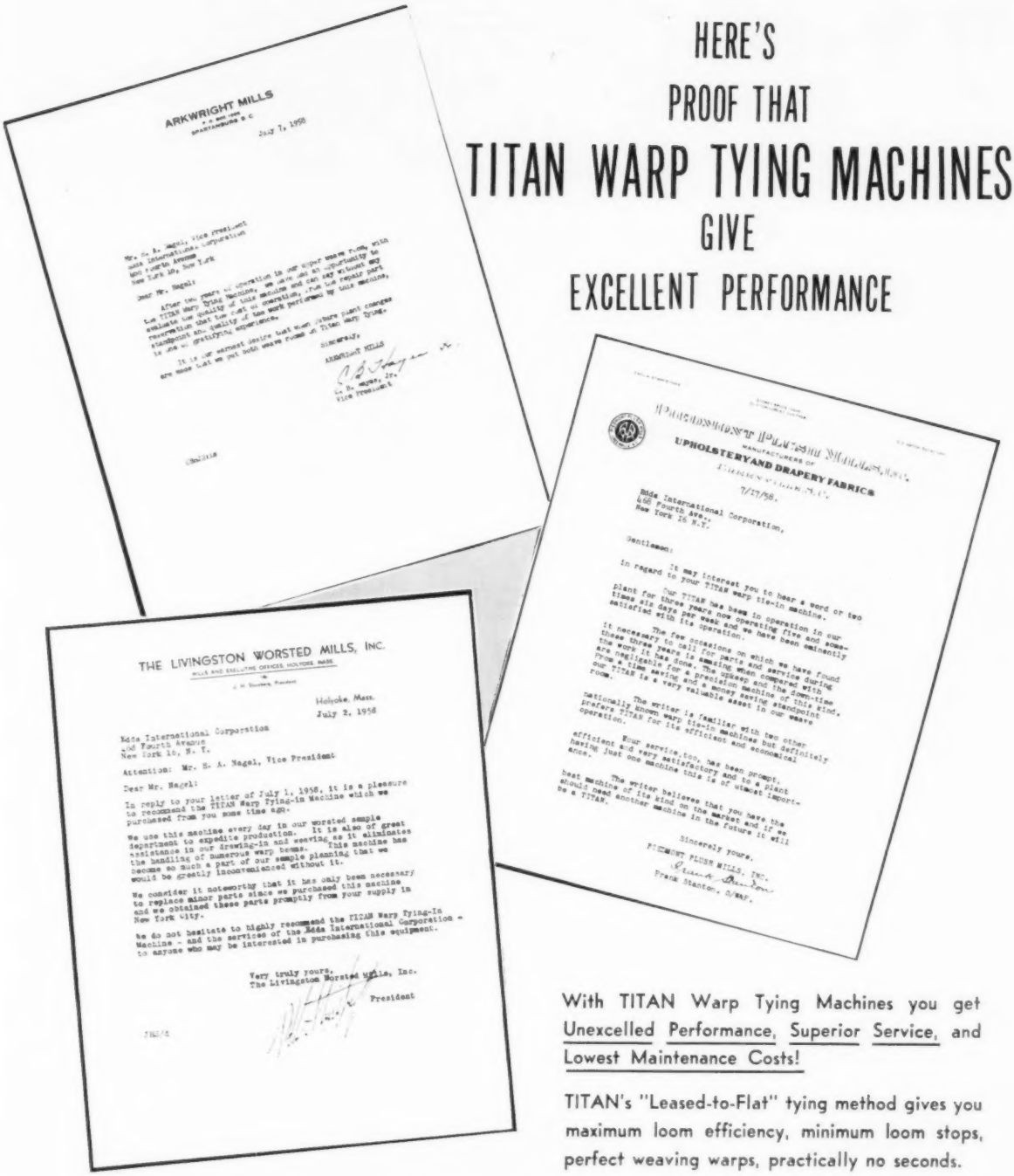
NON-FLUID OIL is used in card rooms of seven out of every ten of the best run mills. Write for Bulletin T-5 and a free testing sample.

NEW YORK & NEW JERSEY LUBRICANT COMPANY
292 MADISON AVE., NEW YORK 17, N. Y.
WORKS: NEWARK, N. J.
So. Dist. Mgr.: Lewis W. Thomason, Jr. Charlotte, N. C.
WAREHOUSES

Birmingham, Ala.	Greenville, S. C.	Greensboro, N. C.
Atlanta, Ga.	Chicago, Ill.	Detroit, Mich.
Columbus, Ga.	Springfield, Mass.	Providence, R. I.
Charlotte, N. C.		St. Louis, Mo.

NON-FLUID OIL is not the name of a general class of lubricants, but is a specific product of our manufacture. So-called grease imitations of NON-FLUID OIL often prove dangerous and costly to use.

HERE'S PROOF THAT TITAN WARP TYING MACHINES GIVE EXCELLENT PERFORMANCE



ARKWRIGHT MILLS

July 7, 1958

Mr. H. A. Nagel, Vice President
Edda International Corporation
468 Fourth Avenue
New York 16, New York

Dear Mr. Nagel:

After two years of operation in our spun rayon room with the TITAN warp tying machine, we have not had an opportunity to evaluate the quality of this machine and can say without any reservation that how not to operate, from the repair part standpoint the quality of the work performed by this machine, is one of gratifying performance.

It is our earnest desire that when other plant changes are made that we put both weave rooms on Titan warp tying.

Sincerely,

ARKWRIGHT MILLS

C. B. Hayes, Jr.
Vice President

CBH/ELH

THE LIVINGSTON WORSTED MILLS, INC.

MILLS AND EXECUTIVE OFFICES, HOLYOKE, MASS.

Holyoke, Mass.
July 2, 1958

Edda International Corporation
468 Fourth Avenue
New York 16, N. Y.

Attention: Mr. H. A. Nagel, Vice President

Dear Mr. Nagel:

In reply to your letter of July 1, 1958, it is a pleasure to recommend the TITAN Warp Tying-in Machine which we purchased from you some time ago.

We use this machine every day in our worsted sample department to expedite production. It is also of great assistance in our drawing-in and weaving as it eliminates the handling of numerous warp beams. This machine has become so much a part of our sample planning that we would be greatly inconvenienced without it.

We consider it noteworthy that it has only been necessary to replace minor parts since we purchased this machine and we obtained these parts promptly from your supply in New York City.

We do not hesitate to highly recommend the TITAN Warp Tying-In Machine - and the services of the Edda International Corporation - to anyone who may be interested in purchasing this equipment.

Very truly yours,
The Livingston Worsted Mills, Inc.

President

THEM/s

UPHOLSTERY AND DRAPERY FABRICS

7/17/58.

Edda International Corporation,
468 Fourth Ave.,
New York 16 N.Y.

Gentlemen:

It may interest you to hear a word or two in regard to your TITAN warp tie-in machine.

Our TITAN has been in operation in our plant for three years now operating five and one-half days per week and we have been eminently satisfied with its operation.

The few occasions on which we have found it necessary to call for parts and service during these three years is far outweighed when compared with the work it has done. Smarting when compared with new machines for precision and the upkeep point are negligible for the upkeep and attention of this kind. TITAN is a very valuable asset in our weave room.

The writer is familiar with two other nationally known warp tie-in machines but definitely prefers TITAN for its efficient and economical operation.

Your service, too, has been prompt, efficient and very satisfactory and to a plant having just one machine this is of utmost importance.

The writer believes that you have the best machine of its kind on the market and if we would need another machine in the future it will be a TITAN.

Sincerely yours,
PIEDMONT PLUSH MILLS, INC.
Frank Stanton, G/MGR.

With TITAN Warp Tying Machines you get Unexcelled Performance, Superior Service, and Lowest Maintenance Costs!

TITAN's "Leased-to-Flat" tying method gives you maximum loom efficiency, minimum loom stops, perfect weaving warps, practically no seconds.

See TITAN Warp Tying Machines, and the EXCELSIOR Reed Cleaner & Polisher, in operation at the SOUTHERN TEXTILE EXPOSITION, (October 6-10), Greenville, S. C., Booth No. 503

EDDA INTERNATIONAL CORP.

468 FOURTH AVE., NEW YORK 16, N. Y. CALHOUN TOWERS, GREENVILLE, S. C.

president of the firm's Fibers Division, stated that an orderly curtailment of manufacturing is being planned to be effective as soon as possible.

Carl E. Balentine has established a safety consultant service for business and industry in Greenville, S. C. The new firm offers in-plant safety programs with such features as monthly programs, inspections, and recommendations. Offices are at 217 Briarcliff Dr.

This newly-completed, multi-million dollar building in Richmond, Va., is the home office of REYNOLDS METALS CO. The formal opening was held recently.

CARBERT
Poly Bag Sealer
FAST—60 BAGS PER MINUTE

- ***Continuous Motion***
- ***Ruggedly Built***
- ***Readily Adjustable***

A machine designed especially for polyethylene bag sealing at high speeds. Forming neat contour packages with a hair line seal, this unit provides economical bag sealing operation for such items as knit goods, lingerie, sheets, pillowcases, underwear, hosiery, infants wear, etc.

The Carbert Poly Bag Sealer handles sizes up to 4" thick and from 4" to 12" in length. An electric-eye alignment control insures proper positioning of seal and each bag is automatically trimmed. Speed of unit ranges from 600 to 1000 linear inches per minute.

Available as optional equipment with the Carbert Bag Sealer is an adjustable pressure sensitive label applicator for attaching labels to packages as they pass through sealing operation. Write for Bulletin No. 13 giving more details on this versatile equipment.

CARBERT Manufacturing Co., Inc.
143 Sidney Street, Cambridge 39, Mass.
SUBSIDIARY OF PNEUMATIC SCALE CORP., LTD.

Southern Representative: Karl H. Inderfurth Co., Inc.
2842 Selwyn Ave., Charlotte 7, N. C.

Chemstrand Corp. has combined the Technical Sales Service and Applications Research departments into one department, called Applications Research and Service. C. W. Gayler heads the department. His staff includes S. J. Davis, manager, Textile Applications Research; E. V. Burnthall, manager, Dyeing and Finishing, Applications Research; E. J. Gilliland, supervisor, Nylon Service; W. Stump, supervisor, Dyeing and Finishing Service; and R. P. Nirenberg, supervisor, Consumer Product Service. The advertising, merchandising, and promotion departments were realigned into separate departments. B. F. Bertland has been named director of advertising and promotion. M. R. Dalton is now director of sales. His staff includes L. M. Bedisio, manager of Administrative Services; W. C. Melton, Jr., district sales manager, Akron, O.; H. Cramer, district sales manager, Charlotte, N. C.; R. H. Hale, district sales manager, Needham, Mass.; C. C. Madeira, Jr., district sales manager, New York, N. Y.; and I. Bollinger, export sales manager.

Robert H. Boegel has been named sales manager for the Middle Atlantic area of **Clinton Corn Processing Co.** He will continue to make his headquarters in Philadelphia, Pa. * * * H. C. (Herb) Nickelson has been appointed assistant sales manager of Clinton's Primary Products. His chief responsibility will be in the field of industrial starch sales.

The Dow Chemical Co. has consolidated the sales organizations of The Dobeckmun Co.'s Lurex yarn division and the Dow Textile Fibers department. The consolidated group is headed by Amos L. Ruddock, Dow's textile fibers sales manager, whose responsibilities include the marketing of Zefran as well as the Dobeckmun family of metallic yarns bearing the Lurex trademark. Headquarters will be at the James River plant near Williamsburg, Va.

PNEUMASTOP®

RETURNS MORE

PROFITS

MILLS now enjoying the many competitive advantages of PNEUMASTOP can look forward to an even greater return from their investment with the addition of new ELECTROFIL. ELECTROFIL patrols the creel portion of the roving frame ready to stop instantly when a creel break occurs, leaving a tail for piecing-up. Mills report frame down time cut in half!

HUMIDITY — WHERE IT'S NEEDED

PNEUMASTOP literally pulls humidified air into the drafting area. Quality is vastly improved because of fewer ends down, frame stops, and lap ups.

CLEANER FRAMES

PNEUMASTOP's suction works in fly generating area, picking up loose fly and trash before it settles on frames. Flyer picking time is cut in half!

CLEANER — STRONGER ROVING

Slubs, gouts, and foreign matter are removed and the roving goes to the spinning room cleaner, stronger, more even. Spinning room ends down are reduced as much as 30%!

INSTANTLY CONTROLS END BREAKS

PNEUMASTOP immediately grabs the broken end, keeping it always under control. The frame is instantly stopped except for slight delay at traverse change.

for more information please contact

PNEUMAFIL CORPORATION
CHARLOTTE 8, NORTH CAROLINA

☑ FROM ROVING

- Production increased from 3 to 15%
- Job assignment increased 25%
- Roving area kept 50% cleaner
- Frame down time due to end breaks and creel breaks reduced 50%

☑ FROM SPINNING

- Reduction of ends down from 10 to 30%
- Yarn appearance up-graded ½ grade
- Spinners' cleaning time reduced another 15%
- Production increased on each frame

☑ FROM WINDING

- Throw-outs reduced 5 to 15%
- Cleaning cycle on frames reduced 20 to 25%
- More full spinning bobbins, resulting in 2% increase in production
- Knots reduced per cone

☑ FROM WEAVING

- Warp end breaks reduced 10 to 15%
- Filling breaks reduced 10 to 15%
- Loom stops from yarn imperfections reduced
- Weave room efficiency improved ¼ to 1%

☑ FROM THE PRODUCTS

- Fewer cloth imperfections due to yarn faults
- Faster inspection per cut

☑ These are actual results of a study made recently in a well known mill. Full particulars furnished upon request.

PNEUMAFIL®

© 1958 Pneumafil Corp.

SUPPLIERS News
WHAT THEY ARE DOING

An export merchandising group for the Textile Fibers department has been established by **Du Pont Co.** In addition to marketing research and product development work, the group, headed by George B. Lewis, will coordinate advertising and promotion activities. * * * The Textile Fibers department is planning major use of television and radio as part of a dramatically increased advertising program, beginning this fall. * * * Du Pont has installed new production facilities at its Seaford, Del., plant as a move to increase significantly the output of 420 nylon and permit expansion of the new fiber into a wider variety of market end uses.

Daniel Construction Co. has opened a new office at 375 Park Ave., New York City. Charles W. Cox heads the office.

MILTON
WARP BEAMS
REDUCE
SECONDS
in the weave room

Loose and slack end problems are minimized by Milton's true-running, easily adjustable, heavily ribbed flanges (cast iron or aluminum alloy). They're locked to the barrel with a pressure block threaded on the inner surface, preventing damage to barrel threads. Flange diameters: 12" to 28", in 2" increments.

Beam barrels are furnished in standard or extra heavy type with Milton's exclusive stud construction providing easy inter-changeability of attachments and simplifying shaft replacement.

Milton Warp Beams for broad, narrow fabric, ribbon, velvet, carpet and special looms are backed by over 25 years of rugged service . . . furnished to users' specifications for Draper and Crompton & Knowles looms. Write for free bulletin.

Over a Quarter Century of Dependability in Yarn Beams

MILTON MACHINE WORKS, INC.
DESIGNERS • ENGINEERS • MANUFACTURERS
MILTON • PENNA.

Mr. Boyd
Uster Corp.

Mr. Watson
Watson-Williams

Mr. Dill
Colton Chem.

Mr. Crowder
Benj. Booth Co.

William L. Boyd has joined the Testing Equipment division of **Uster Corp.** as a sales engineer. His headquarters are in York, S. C.

J. Kimball Watson has been elected vice - president of **Watson - Williams Manufacturing Co.**

Colton Chemical Co. has appointed Colby Dill, Jr., as sales representative in the Philadelphia-Baltimore-Richmond-Washington, D. C., area. He is making his headquarters in Elkton, Md.

William F. Crowder has joined the sales staff of **Benjamin Booth Co.** He will contact mills in South Carolina.

The sales offices of Union Bleachery, Carlisle Finishing Co., and Proximity Print Works, divisions of **Cone Mills Corp.,** have been moved to 111 W. 40th St., New York City.

Curtis & Marble Machine Co. has occupied its new southern sales shop on Highway 276 near Mauldin, S. C. Walter F. Woodward, vice-president of sales, will supervise the operation.

E. L. (Ernie) Holt has joined the staff of **Robert Walters Machinery Co.** His territory includes parts of Georgia and South Carolina.

J. M. Moon has been elected executive vice-president of the **Signode Steel Strapping Co.** In addition to assuming his new duties, Mr. Moon will continue to direct the sales activities of the firm.

(Continued on page 56)

F. A. YOUNG MACHINE CO.

PRESENTS

THE VERTICAL **Y**

TOMORROW'S FRAME TODAY

RUGGED DESIGN

POSITIVE CONTROL

SEE IT AT THE TEXTILE SHOW OCT. 6-10, IN GREENVILLE AT OUR

BOOTH 257 - 258

NEW 24" WIDE VERTICAL "Y" SPINNING FRAME

INTRODUCING:

- Straight Line Drafting From Trumpet To Traveler.
- Creeling From 12 X 7 Bobbins.
- Unique Design of Stands, in Relation to Bobbins With Draft Range 10 - 70; Any Length Bobbin Up to 12" Stroke.

SIMPLEX DRAFT Gearing Eliminates 50% of Gears.

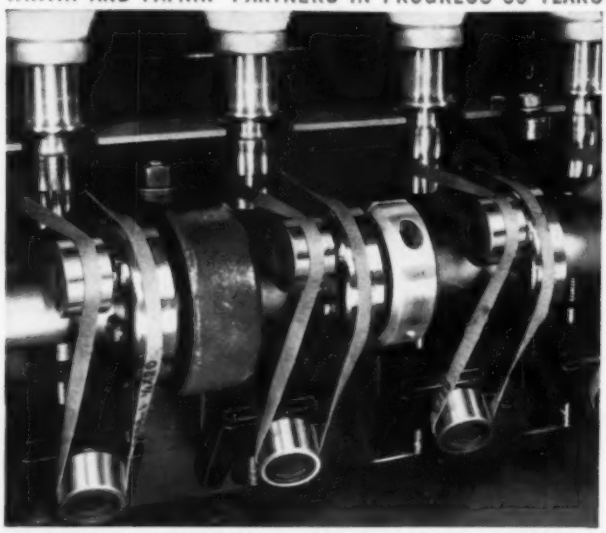
COMPLETE ANTI-FRICTION FROM THE FLOOR UP.

F. A. YOUNG (QUALITY & SERVICE Y MINIMUM COST) **MACHINE CO.**

Telephone UNiversity 5-8556 — GASTONIA, NORTH CAROLINA

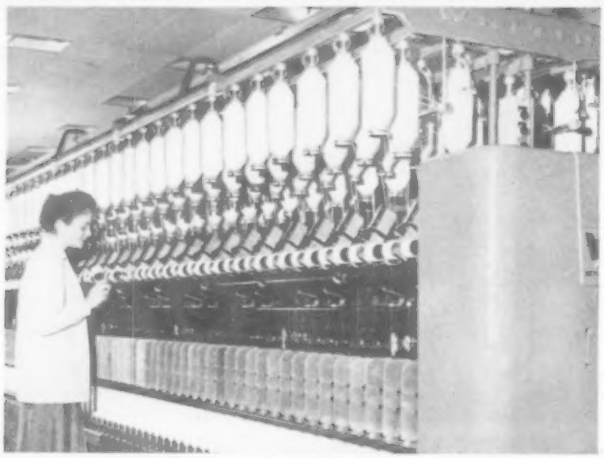
FLUTED ROLLS FOR SPINNING • FLYER FRAMES • COMBERS • DRAWING & LAP MACHINES • NYAF

WHITIN AND FAFNIR–PARTNERS IN PROGRESS 35 YEARS



Close-up of Whitin Piedmont's spindles, with drive cover removed, showing individual belt drives.

UNIQUE SPINDLE DRIVE ON NEW WHITIN PIEDMONT IS FAFNIR-EQUIPPED FOR HIGH SPEEDS, LOW UPKEEP



Piedmont machine in operation. Features include "straight line" spinning, latest Whitin Super-Draft, scientific balloon control system, compact 27" width.

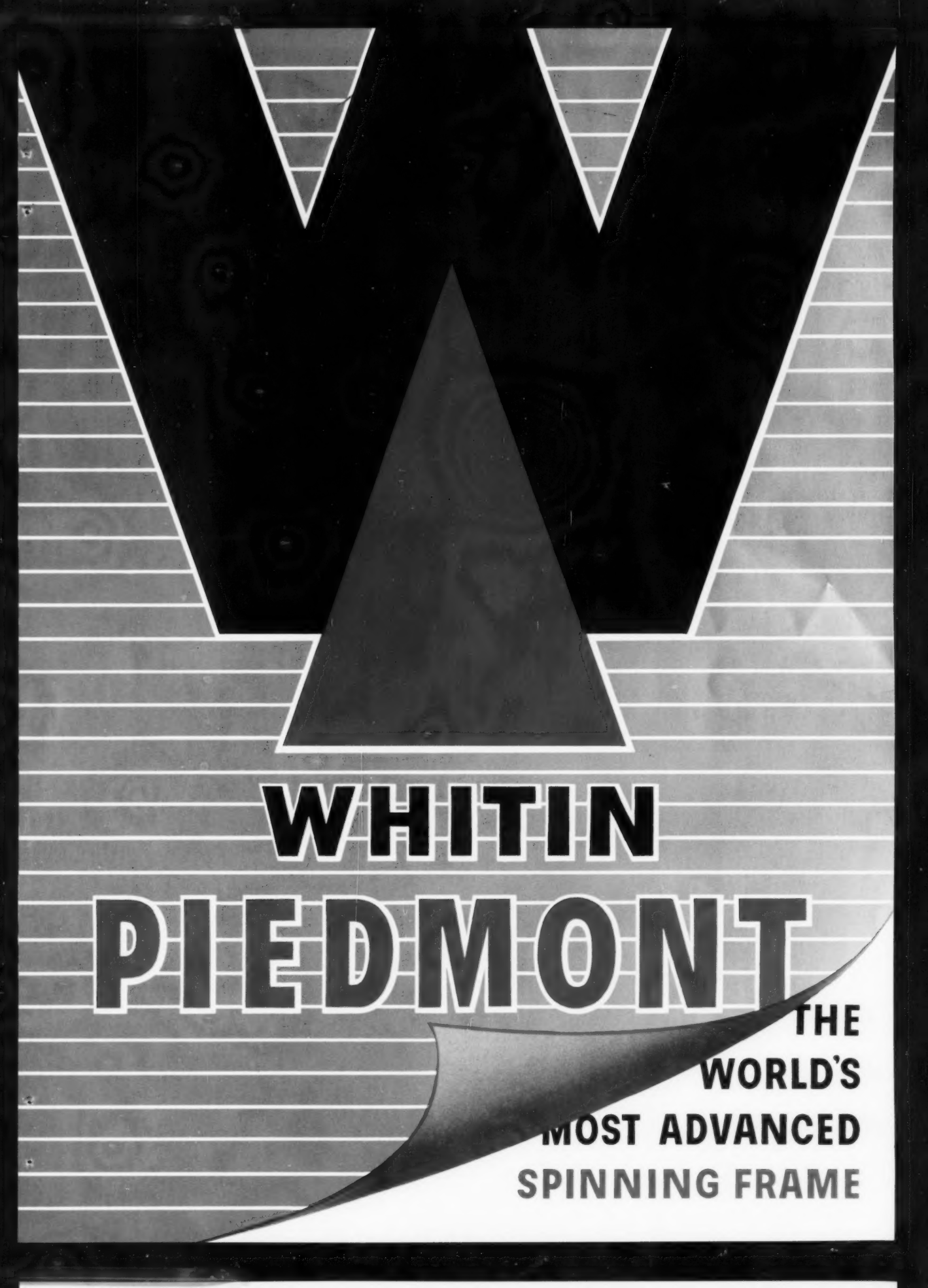
675 FAFNIR BALL BEARINGS DESIGNED INTO NEW SPINNING FRAME

Individual belt drives for each spindle are the outstanding design feature of Whitin's new Piedmont Spinning Frame. The unique construction affords more uniform, high-speed spindle operation while eliminating windage problems. The design also permits a fully enclosed drive, for cleaner spinning. ✓ ✓ ✓ Among some 675* Fafnir ball bearings specified for the new frame are 576 prelubricated and shielded spindle belt idler bearings. Fifty prelubricated Fafnirs with Mechani-Seals are used for the drive shafts. In addition to permitting higher speeds, these Fafnir ball bearings virtually eliminate maintenance. Contaminants are sealed out; lubricant sealed in. ✓ ✓ ✓ Emphasis on antifriction design pays off in performance too. **Components are so nicely balanced that the whole frame can be turned easily by hand—even with the machine in fully-loaded, ready-to-go condition!** Convincing evidence of precise, economical operation. Evidence, too, of how "the Fafnir touch" can smooth the going when design reaches turning points. Worth bearing in mind. The Fafnir Bearing Company, New Britain, Connecticut.

*On 288-spindle frame

Fafnir Double-Shielded Spindle Belt Idlers (top) and Mechani-Seal Drive Shaft Ball Bearings (center) used in Whitin Piedmont. Ball bearings with Plya-Seals, contact type (bottom), are specified for head end gearing...offer best protection yet against foreign matter, loss of lubricant.

FAFNIR
BALL BEARINGS
Most Complete Line in America


WHITIN
PIEDMONT
THE
WORLD'S
MOST ADVANCED
SPINNING FRAME

WHITIN presents

the PIEDMONT

TODAY'S MOST EXCITING NEW SPINNING FRAME

It's "top secret" no longer! Here's the great new PIEDMONT, the world's most advanced Spinning Frame — this triple triumph of Whitin research, engineering and manufacturing is the most functionally efficient Spinning Frame yet developed.

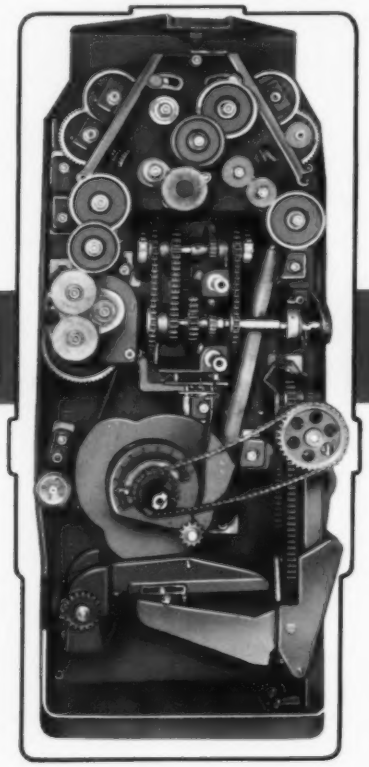
Bold in concept and dramatic in design, this slim-trim beauty is not just another narrow frame nor another compressed conventional frame — but an entirely new frame. It is new from floor to creel, from its sleek, feature-filled head end to the smartly concealed cooling unit in the foot end. Its classic lines are a tribute to the styling genius of Raymond Loewy Associates.

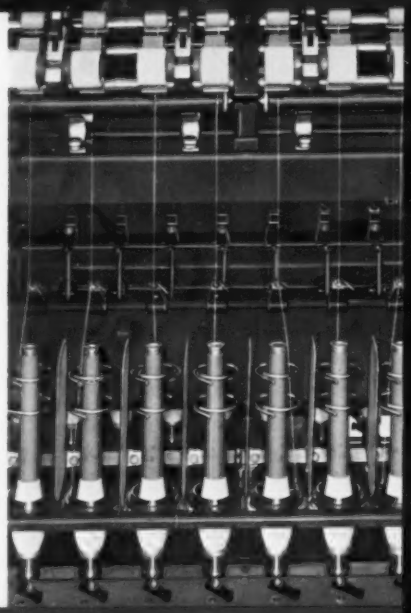
Cleverly compact — it's only 27" wide — the PIEDMONT has, among a score of features, individual spindle drive, straight-line spinning, scientific balloon control system, ingenious builder motion and simplified gearing. Seldom, if ever, has a single new machine offered to the industry such a wealth of opportunity for more profitable operation through increased production and better quality at lower costs.

The great new PIEDMONT will be in operation in Booth 804 at the 20th Southern Textile Exposition, Greenville, S. C., October 6-10. We will be delighted to show it to you.

Every spinning frame improvement desired by mill men is incorporated into the PIEDMONT. Its new and unique features herald a new epoch in spinning for the future!

Send for complete information now.





Straight line spinning and two scientific balloon control rings

Modern styled head end and attractive color combination

Simplified gearing and new builder are entirely enclosed in head end

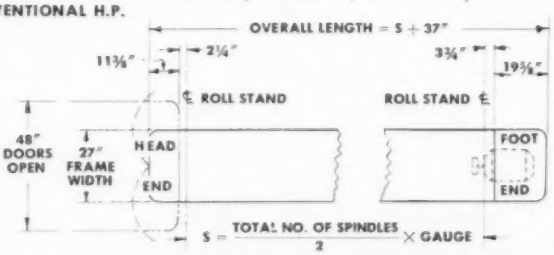
Spindles individually driven from a side shaft by an endless belt

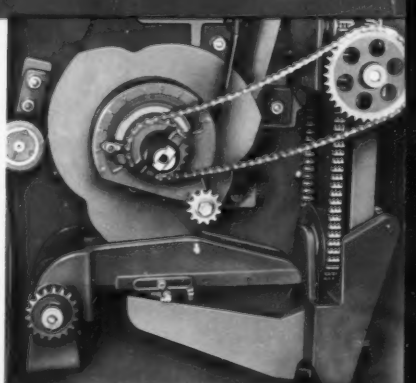
SPECIFICATIONS:

OVERALL FRAME WIDTH 27"
TRAVERSE UP TO 12"
MOTOR – SOFT START, ENCLOSED CONVENTIONAL H.P.

GAUGE	3½"	4"
SPINDLES	UP TO 288	UP TO 240
RINGS	UP TO 2½"	UP TO 3"

FLOOR PLAN OF WHITIN PIEDMONT SPINNING FRAME MODEL "K"





PIEDMONT SPINNING FRAME

New builder motion, easy to adjust, provides a better built bobbin

WHITIN MACHINE WORKS WHITINSVILLE, MASS.

CHARLOTTE, N. C. • GREENSBORO, N. C. • ATLANTA, GA. • SPARTANBURG, S. C. • DEXTER, ME.

PTD. IN U.S.A. FORBES, BOSTON

Southern DURAWELD Shuttles

Average Up To 16,000 Hours To Set a New World Record

Here is one easy way to increase your profits . . . by using Southern Quality DURAWELD Shuttles.

Southern DURAWELD Shuttles offer at least 100% longer life expectancy with only a very moderate weight increase. They are made of finest quality Tempered Dogwood end blocks, for resiliency and tip retention, permanently bonded by an exclusive Southern method to long wearing wall sections of laminated wood or plastic.

Every part of a Southern Shuttle is made in our own plant under rigid Quality Control methods. Every employe is an inspector, trained to be always "Quality Conscious."

SOUTHERN stands for QUALITY.

Stehedco
STEEL HEDDLE MFG. CO.
PHILADELPHIA 32, PA.
SOUTHERN SHUTTLE DIV.
GREENVILLE, S.C.
Southern

QUALITY Stehedco CONTROL

S-5811

Other Plants and Offices: Granby, Quebec, Canada—Lawrence, Mass.—Greensboro, N. C. —Atlanta, Ga.—Textile Supply Co., Dallas, Texas—Albert R. Breen, Chicago, Ill.

SEE THESE AND MANY OTHER STEHEDCO AND SOUTHERN PRODUCTS AT THE SOUTHERN TEXTILE EXPOSITION OCTOBER 6 TO 10

SUPPLIERS News — WHAT THEY ARE DOING

(Continued from page 48)

Richard B. Lusignea has been transferred to Philadelphia as director of sales for the **Franklin Process Division,** Indian Head Mills, with plants located in Philadelphia, Pa., Greenville, S. C., Chattanooga, Tenn., and Fingerville, S. C. * * * Leonard Grindrod has been assigned to Franklin's territory which includes Southern Pennsylvania, Delaware, West Virginia, and parts of Virginia. The territory was formerly covered by C. E. McElwee, who has retired. Byron Drummond has taken over Mr. Grindrod's former territory, consisting of New York, New Jersey, Maryland, and Northern Pennsylvania.

Organizational changes designed to strengthen the management, engineering, manufacturing, and sales activities of the Industrial Products Group have been instituted by **Minneapolis-Honeywell Regulator Co.** Under the new set-up, George M. Muschamp becomes group vice-president, engineering; and O. B. Wilson is group vice-president, marketing. John M. Wilson is director of engineering. R. L. Mallory has been appointed to the newly-created position of sales manager of the group. Other assignments include: J. A. Robinson, sales manager of Brown Instruments division; Howard J. MacDonald, general manager of the Valve division; and H. Earl Benson, sales manager for Rubicon division.

Mr. Grindrod
Franklin Process

Mr. Lusignea

Mr. Drummond
Franklin Process

Mr. Benson
Minn. Honeywell

Mr. Mallory

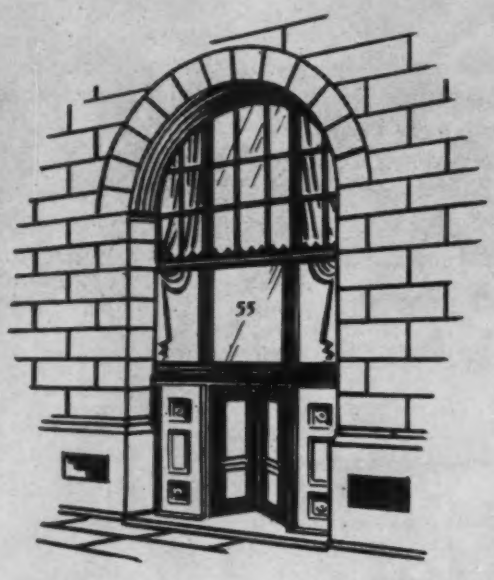
Mr. Robinson
Minneapolis-Honeywell

South Florida Test Service Inc., has moved into its new building at 4301 N. W. 7th St., Miami, Fla.

The southern office of Victor Ring Traveler division of **Saco-Lowell Shops** has moved to its new location on Whitehorse Road, Greenville, S. C. The new site provides ample space for expansion of stockroom facilities and permits improvements in office operations, planned to expedite order handling and delivery. * * * Saco-Lowell Shops announces acqui-

Our service is tailored to provide all the working capital any qualified client needs, without increased borrowing, diluting profits or interfering with management.

Information available for any manufacturer or distributor with $500,000 or more annual sales.



Textile Banking Company

55 Madison Avenue, New York 10, N.Y.

Providing operational financing for the apparel, electronics, furniture, leather, plastics and textile industries.

Subsidiaries:

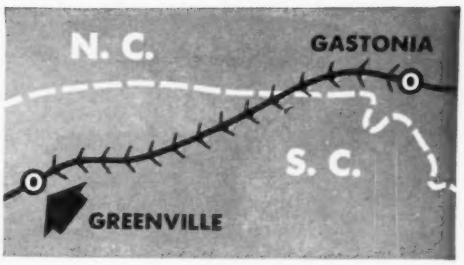
T. B. C. Associates, Inc., New York — Southwest Texbanc, Inc., St. Louis

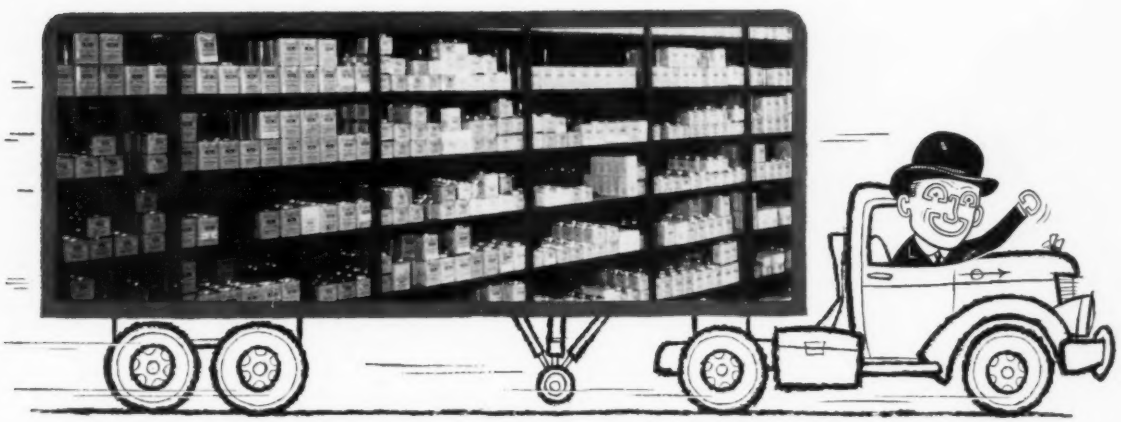
VICTOR'S

SOUTHERN OFFICE and STOCKROOM

MOVED TO GREENVILLE

for better-than-ever Victor service





Remember . . . for
VICTOR'S SOUTHERN OFFICE
now at White Horse Road,
West Greenville, S. C.

call CEdar 9-3915

Southern Sales Manager
WALTER L. HUDSON

Southern Service Engineers
C. W. WILBANKS
Laurens, S. C. Tel. 3366
W. T. HORTON
Belmont, N. C. Tel. Talmadge 5-2218
C. H. GREEN
Lanett, Ala. Tel. 2-5652
F. P. BODENHEIMER
Granite Falls, N. C. Tel. 4303
M. D. CRAWLEY
Atlanta, Ga. Tel. PLaza 5-2942

VICTOR Ring Travelers

Victor Ring Traveler's Southern office and stockroom, formerly at 914-916 East Franklin Ave., Gastonia, N. C., has been moved to White Horse Road, West Greenville, S. C.

The new location affords every advantage required to meet increasing needs for Victor Travelers by mills throughout the Southern textile production area. It provides ample space for the major expansion of stockroom facilities. It will also permit improvements in office operations planned to expedite order-handling and delivery.

The new office will serve as headquarters for Victor's Southern Sales Manager, Walter L. Hudson, and Victor's staff of Southern Service Engineers, who will continue to serve their present contacts.

Again, Victor makes the move required to "keep a step ahead" of growing demands. You can depend on Victor for the finest in travelers and for better-than-ever service to keep your spinning and twisting "a step ahead" — in production rates, in yarn quality, in operating economy.

Visit us at the
SOUTHERN TEXTILE EXPOSITION, Greenville, Oct. 6-10.

You'll be welcome at the

VICTOR Booth No. 828

VICTOR RING TRAVELER DIVISION
of SACO-LOWELL SHOPS

PROVIDENCE, R. I. . . . 1 Sabin Street . . . Tel. DExter 1-0737
GREENVILLE, S. C., P. O. Box 7147, Branwood Sta., Tel. CEdar 9-3915

SUPPLIERS News
WHAT THEY ARE DOING

sition of the exclusive rights in the United States and Canada to sell, service, and manufacture textile drying equipment designed by Fleissner & Son of West Germany.

Metlon Corp. has announced completion of an agreement with **Rexor,** French metallic yarn producer, whereby the French company will manufacture metallic yarns of "Mylar" (Du Pont's registered trademark) polyester film, using the processes developed by Metlon. They will also use the trademark, Metlon.

Gubelin International Corp. announces the following orders and mill installations: Industrial Rayon Corp., Covington, Va., has installed 2,000 SMM roller bearing spindles; Firestone Textiles, Gastonia, N. C., has ordered over 10,000 SMM heavy duty cable twister spindles; and Hartsville (S. C.) Cotton Mill is modernizing its spinning with 3,000 SMM warp spindles.

Mr. Dicom
Dow Corning

Mr. Estes
Crown Chem.

Will Dicom, assistant manager textile industry sales, **Dow Corning Corp.,** has been transferred to New York City. The move was made in an effort to enable the firm to better serve the needs of the industry through closer and more frequent contact with top levels of mill and manufacturer management.

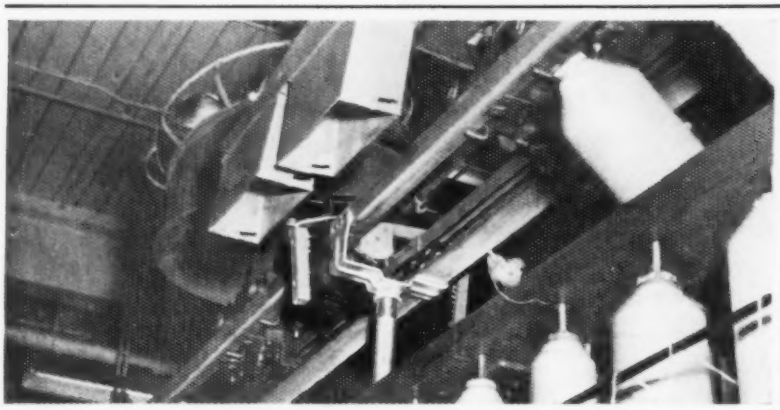
Billy G. Estes has joined the technical sales staff of **Crown Chemical Corp.** He will cover portions of South Carolina, Georgia, Alabama, and Tennessee. His headquarters are in Greenville, S. C.

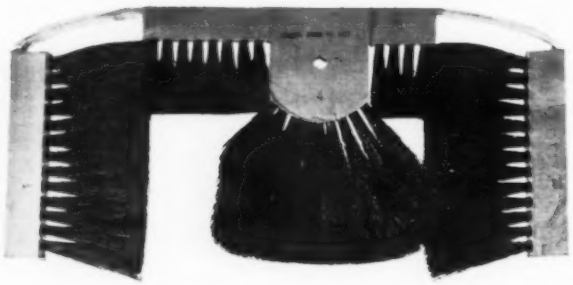
Proctor and Schwartz, Inc., and affiliates **John Dalglish & Sons, Ltd.,** Glasgow, Scotland, and **Artos Maschinenbau,** Hamburg, Germany, recently held the first combined research conference in Hamburg. The primary, but not necessarily exclusive, areas of research responsibility are Artos Maschinenbau, textile processing for woven goods; John Dalglish & Sons, textile processing for knit goods; and Proctor & Schwartz, processing equipment for chemicals, food, etc. The general direction of research for the group will continue in the field of heat transfer, fluid flow of both air and liquids, and the problems of exchange of these media.

Reliance Electric & Engineering Co. has made the following appointments of sales engineers: James H. Chambers, the sales office in Atlanta, Ga.; Richard A. Christman, to Cincinnati, O.; Melvin H. Hare, to Greenville, S. C.; Merle M. Morrow, to St. Louis, Mo.; and Millard H. Phelps to San Francisco, Cal.

Eugene J. Wollschlager has been named assistant to the president of **Robinette Research Laboratories, Inc.** The firm has acquired additional of-

(Continued on page 266)





TRAVELING TRACK BRUSH ASSEMBLY

This traveling track brush assembly # 7327 for overhead cleaners is proving very useful to many mills. It saves troublesome cleaning of tracks and prevents downtime on traveling cleaners.

See this brush and many other textile brushes in our booth # 418-419 at the Greenville Show. Also ask about custom made brushes for any particular applications you have in mind.

ATLANTA BRUSH COMPANY

320 Tanner St., S. E., Atlanta, Georgia Telephone JA 4-4586

Cibacron® Dyes

New "Firsts" for CIBACRON Dyes
prove that versatility as well as unique color brilliance make these first cellulosic fiber reactive dyes first choice for fast, simple printing and dyeing...

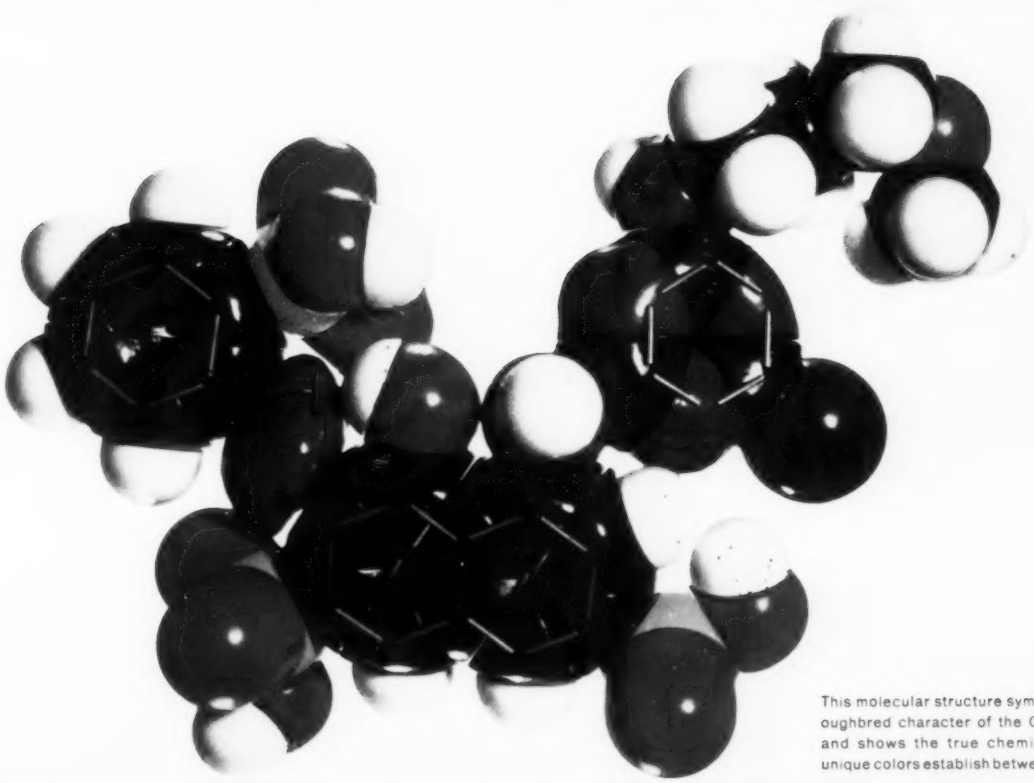
Emulsion Printing* with CIBACRON Dyes
replaces conventional gum system...
delivers higher color yield, less color wash-down...
delivers cleaner, sharper prints...
delivers greater printing speed.

*CIBA, STEIN HALL development on cellulosic fibers using VISCOBOND, (Trade Mark Stein Hall), and Emulsifier SH, (Patented)

Dyeing of Wool with CIBACRON Dyes
by simple procedure delivers the typically brilliant CIBACRON shades with fastness unobtainable using conventional wool dyes.

New CIBACRON Black BG
delivers outstanding fastness to cross-dyeing... now makes possible deep rich shades such as Bordeaux, Bottle Green, Charcoal, rich Browns, Wine and Navy Blue shades.

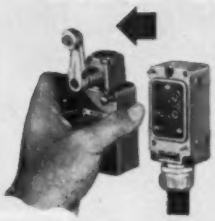
CIBA



This molecular structure symbolizes the thoroughbred character of the CIBACRON Dyes and shows the true chemical bond these unique colors establish between dye and fiber.

CIBA Company Inc.
627 Greenwich Street, New York 14, N. Y.

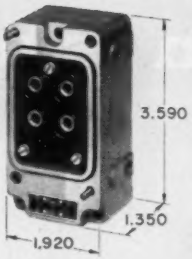
MICRO SWITCH Precision Switches



PULL OUT

PLUG IN

18 PA1 Terminal Enclosure—is common to all actuator assemblies in the "200LS" series. Can be mounted from front, back or either side.



Actuator plugs into terminal enclosure—contains all moving mechanical and electrical parts.

NEW...

"Plug-in Limit" Switch cuts costly downtime

Compact sealed enclosures with choice of 6 actuators meet wide range of industry needs

Here's a precision limit switch you can replace complete in 20 seconds! Downtime is all but eliminated!

The switch enclosure of this new "Plug-in Limit" switch, in any of six actuator styles, plugs into the terminal enclosure like a radio tube . . . is precisely positioned by dowel pins and secured by two No. 10 screws. Together, the two parts form a complete unit, sealed against oil, water, dirt and dust.

The "Plug-in Limit" is two-circuit double throw. Electrical rating is 10 amps. 120, 240, 480 vac; ½ H.P. 120 vac; 1 H.P. 240 vac; 0.8 amp. 115 vdc; 0.4 amp. 230 vdc; 0.1 amp. 550 vdc. Pilot duty rating is 600 vac max. Meets NEMA Industrial Control Standards.

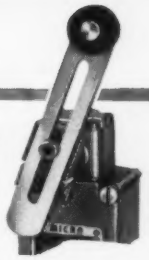
Authorized distributors everywhere maintain stocks. MICRO SWITCH technical specialists are available at the sales office near you. For details of the new "200LS" Series, send for Catalog 83.

—•—

MICRO SWITCH...FREEPORT, ILLINOIS
A division of Honeywell
In Canada: Honeywell Controls, Ltd., Toronto 17, Ont.

—•—

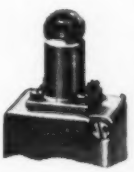
The two-word name MICRO SWITCH *is* NOT *a generic term. It is the name of a division of Honeywell.*



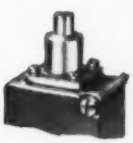
201LS3 Adjustable Arm Rotary Actuator—roller lever arm is adjustable to any point in a 2½-inch range. Head assembly can be positioned to any of 4 sides of switch. Actuating direction and operating point are adjustable.

208LS1 Coil Spring Actuator—flexible spring actuator for multi-direction operating motion

201LS10 Rod Actuator—provides light actuating force. See adjustability details under 201LS1 below



205LS1 Roller Plunger Actuator—adjustable at 90° angles



202LS1 Push Plunger Actuator—for in-line actuating motion

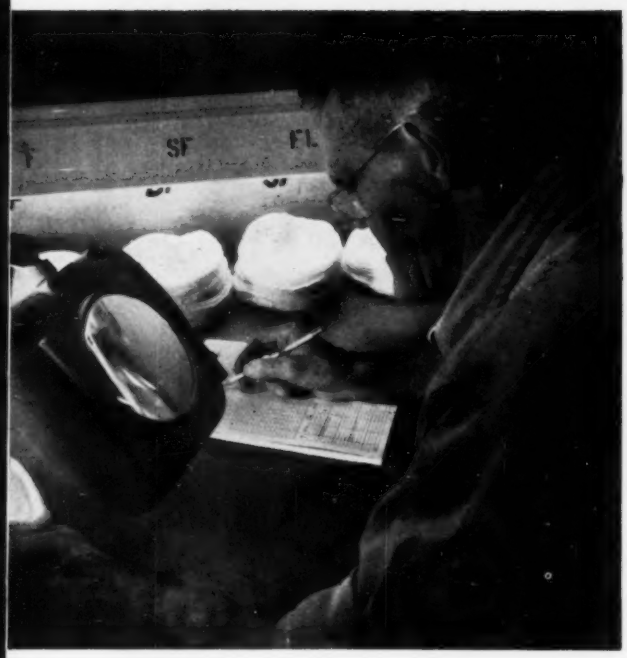
201LS1 Roller Arm Actuator—field adjustable for actuation clockwise, counter-clockwise, or in both directions. Arm is adjustable through 360°. Head can be faced in any of four directions.

Honeywell
MICRO SWITCH PRECISION SWITCHES

Look for the name of MICRO SWITCH *Authorized Distributors in the Yellow Pages*

Jefferson Island Rock Salt . . .

. . so pure that every textile user benefits



Diamond Crystal pays particular attention to the elimination of insoluble matter. Filter pads are run every 40 minutes under Diamond's quality control . . . thus assuring uniform high purity.

For many years, rock salt from JEFFERSON ISLAND has made possible many economies in dyeing textiles.

Mined in Louisiana from one of the world's purest deposits, this rock salt for brine baths results in your products being consistently better. The big story is up to 99% purity at the source.

TWO GREAT NAMES MERGE AS ONE

Recently, the Jefferson Island Salt Co. merged with Diamond Crystal, a company known for more than 70 years as a quality producer of flake and granular salt. For example—they are the leading supplier of salt to high quality food processors.

INHERENT PURITY—KEY TO COST SAVINGS

Inherent purity in Diamond Crystal salt is a major factor in all industries. For instance, textile plants can use rock salt from Jefferson Island *without* costly side reactions caused by impurities.

And high purity CMF (calcium magnesium free) replaces Glauber's and common salt to produce higher quality textile products.

For immediate service and consultation on your salt problem, call the nearest Diamond Crystal sales office. Or write for the information booklet "Salt in Industry", to the Jefferson Island Salt Div., Diamond Crystal Salt Co., St. Clair, Mich.

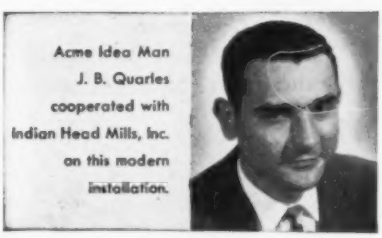
DIAMOND CRYSTAL SALT

SALES OFFICES: CHARLOTTE, ATLANTA, NEW ORLEANS, LOUISVILLE, BOSTON, NEW YORK, AKRON, DETROIT, CHICAGO, MINNEAPOLIS

PLANTS: AKRON, OHIO . . . JEFFERSON ISLAND, LA. . . ST. CLAIR, MICH.

Know your AIM*...Indian Head Mills, Inc. does...

Steel Strapping Machine closes textile boxes



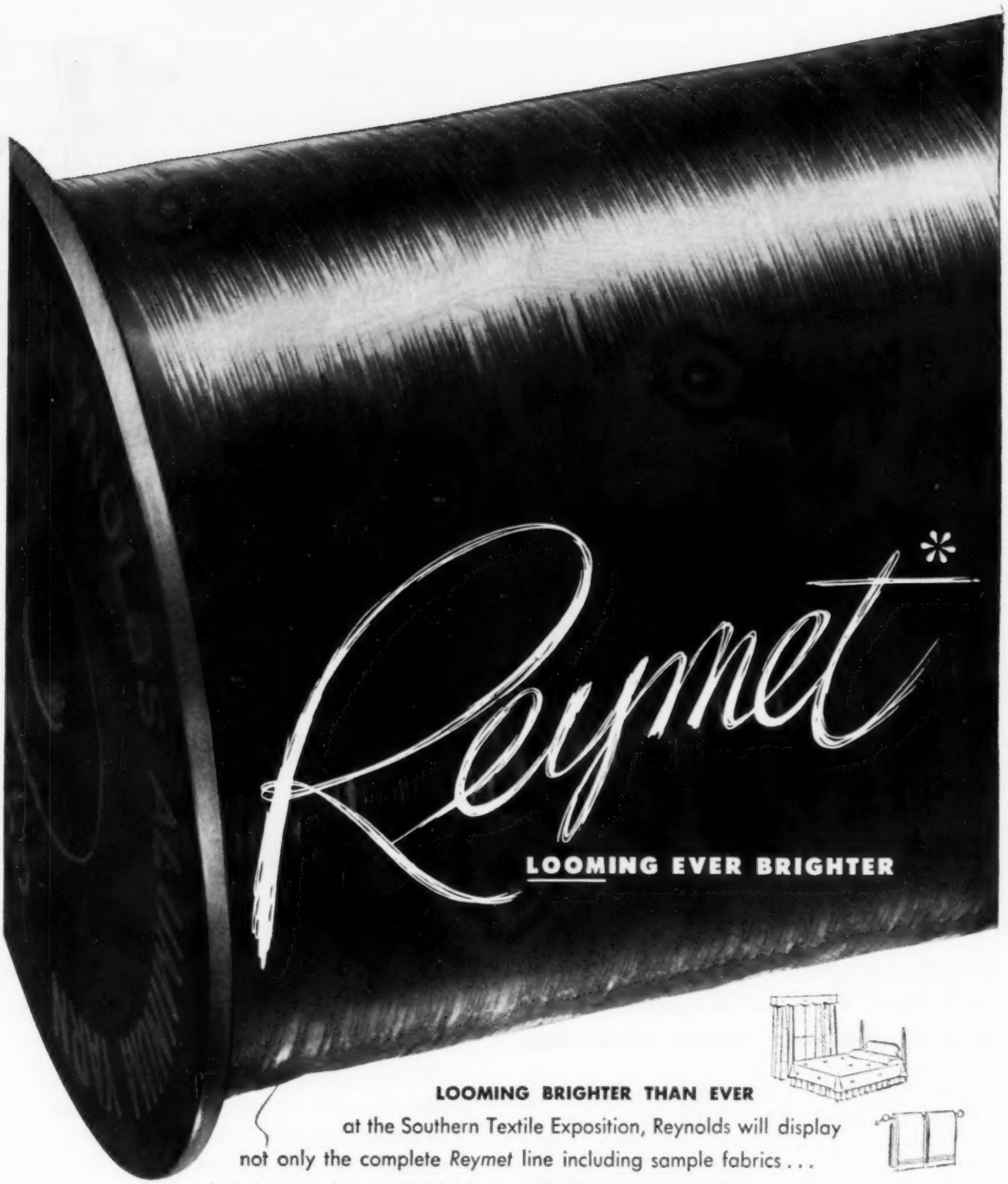
Acme Idea Man J. B. Quarles cooperated with Indian Head Mills, Inc. on this modern installation.

INDIAN HEAD MILLS, INC., Cheraw, South Carolina, uses an Acme Steel Model F1 Semi-Automatic Strapping Machine to close and reinforce boxes of their well-known, quality, "Indian Head" brand textiles. Now, only one man is required for the strapping operation . . . a saving of 8 to 12 man hours per day. (Idea No. S5-5)

Served by a conveyor system, the F1 applies as many steel straps as desired in a matter of seconds with uniform, pre-determined tension. Electrically powered, the machine is controlled by push-buttons. Strap is cut automatically, and ends are instantly and permanently joined by spot welds. The machine handles containers of various sizes in any sequence without adjustment. A special track feeds the strap to within easy operator reach.

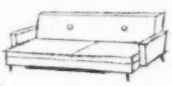
***Know your Acme Idea Man.** He is sure to provide clues to better ways of protecting and shipping your products. Call him today at a nearby Acme Steel office. Or write Dept. TFS-108, Acme Steel Products Division, Acme Steel Company, Chicago 27, Illinois. In Canada, Acme Steel Company of Canada, Ltd., 743 Warden Ave., Toronto 13, Ontario.

ACME STEEL STEEL STRAPPING



LOOMING BRIGHTER THAN EVER

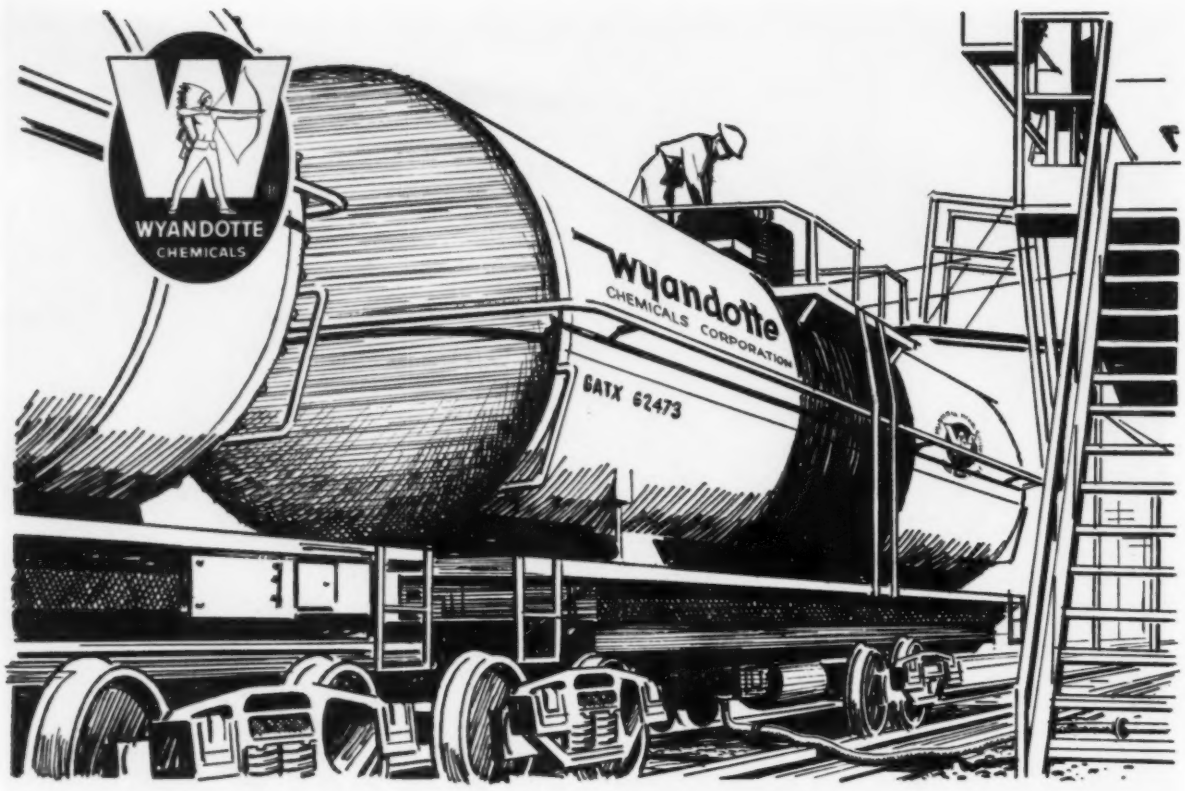
at the Southern Textile Exposition, Reynolds will display not only the complete *Reymet* line including sample fabrics . . . but also samples and finished apparel using *Reymet Staple*. Remember, among the major producers of aluminum, only Reynolds manufactures aluminum yarn. For a dependable source of dependable supply, call any Reynolds sales office. Or write to Reynolds Metals Company, Richmond 18, Va.



AND BE SURE TO SEE US AT BOOTH 484!

*

Trade-mark Registered for REYNOLDS ALUMINUM YARN



CHANGING FREIGHT RATES

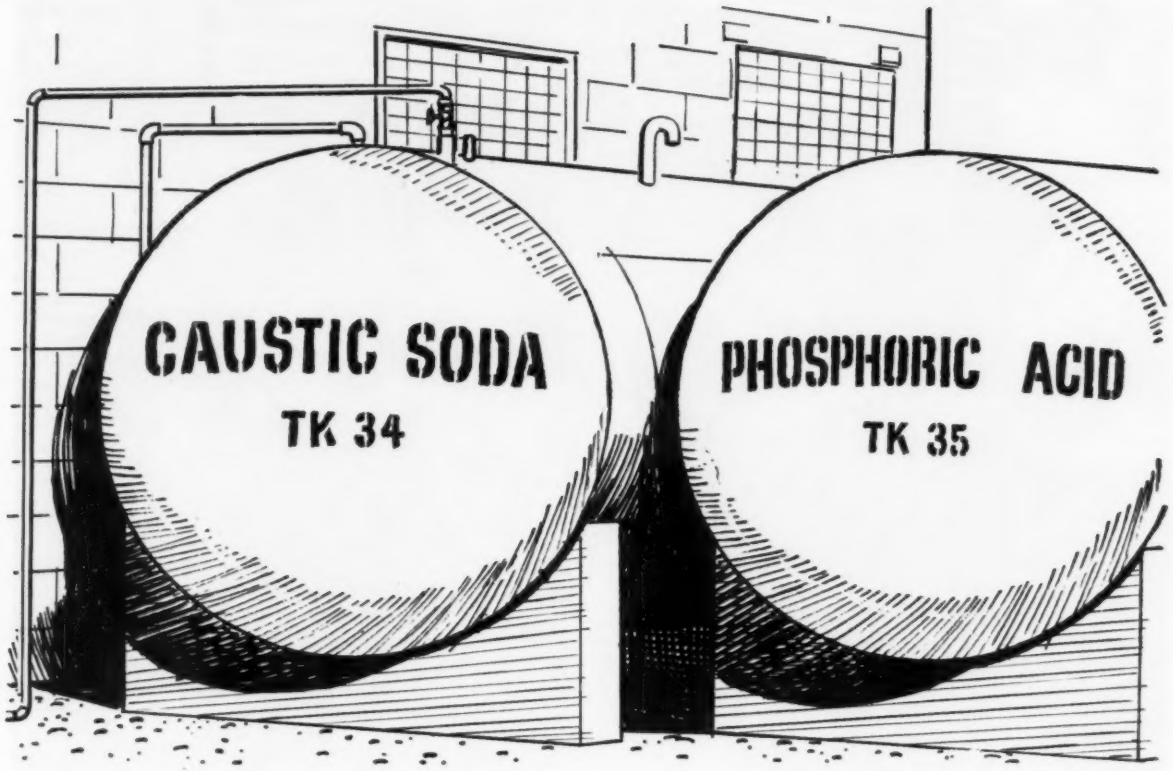
How much can you save by

Maybe nothing . . . maybe thousands of dollars. Wyandotte booklet shows how to plot your caustic economies

If you find your caustic consumption has increased . . . or if freight rates have changed on your shipments of 50% caustic . . . then *now* is the time to check these factors against the cost of converting to 74% caustic. It could mean a big saving.

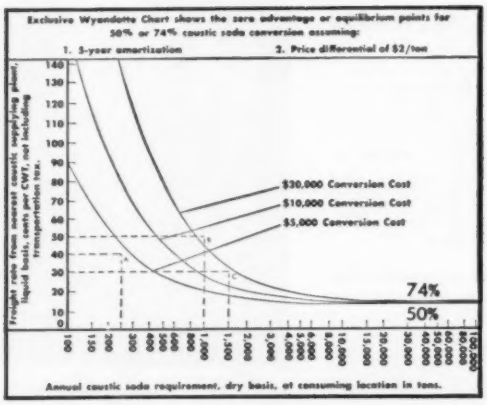
The first step in making this check is to get a basic understanding of all the factors involved. You'll find the necessary facts in Wyandotte's handy guide, "74% or 50% caustic soda, which for you?" It contains the exclusive Wyandotte conversion chart for determining whether higher freight rates are offset by the cost of new dilution equipment and additional storage facilities.

Then if a change is indicated – after you've evaluated your economic position with the Wyandotte caustic soda guide – call in a Wyandotte technical-service man. He is familiar with all phases of caustic soda storage, handling, and uses. And should you decide to change over, his close contact throughout the job – from initial planning to unloading the first tank car – may save your company time and money. So send the coupon today . . . there's no obligation. *Wyandotte Chemicals Corporation, Michigan Alkali Division, Wyandotte, Michigan. Offices in principal cities.*



...STEPPED-UP USE OF CAUSTIC

switching to 74% liquid caustic?


Exclusive Wyandotte Chart shows the zero advantage or equilibrium points for 50% or 74% caustic soda conversion assuming:
1. 5-year amortization
2. Price differential of $2/ton
Freight rate from nearest caustic supplying plant, liquid basis, cents per CWT, not including transportation tax.
$30,000 Conversion Cost
$10,000 Conversion Cost
$5,000 Conversion Cost
74%
50%
Annual caustic soda requirement, dry basis, at consuming location in tons.

This Wyandotte chart will help you plot your economic position in regard to 50% or 74% liquid-caustic solutions. If the point, found by plotting your freight rate per cwt and your total caustic consumption, falls to the left of your cost-conversion curve, 50% solutions are most economical; to the right, you should investigate 74% solutions.

Wyandotte CHEMICALS

MICHIGAN ALKALI DIVISION

PACING PROGRESS WITH CREATIVE CHEMISTRY

Wyandotte Chemicals Corporation
Michigan Alkali Division
Technical Inquiry Department
Wyandotte, Michigan

Gentlemen:

Please send me a free copy of "74% or 50% caustic soda, which for you?" to help me decide on the grade best suited to my needs.

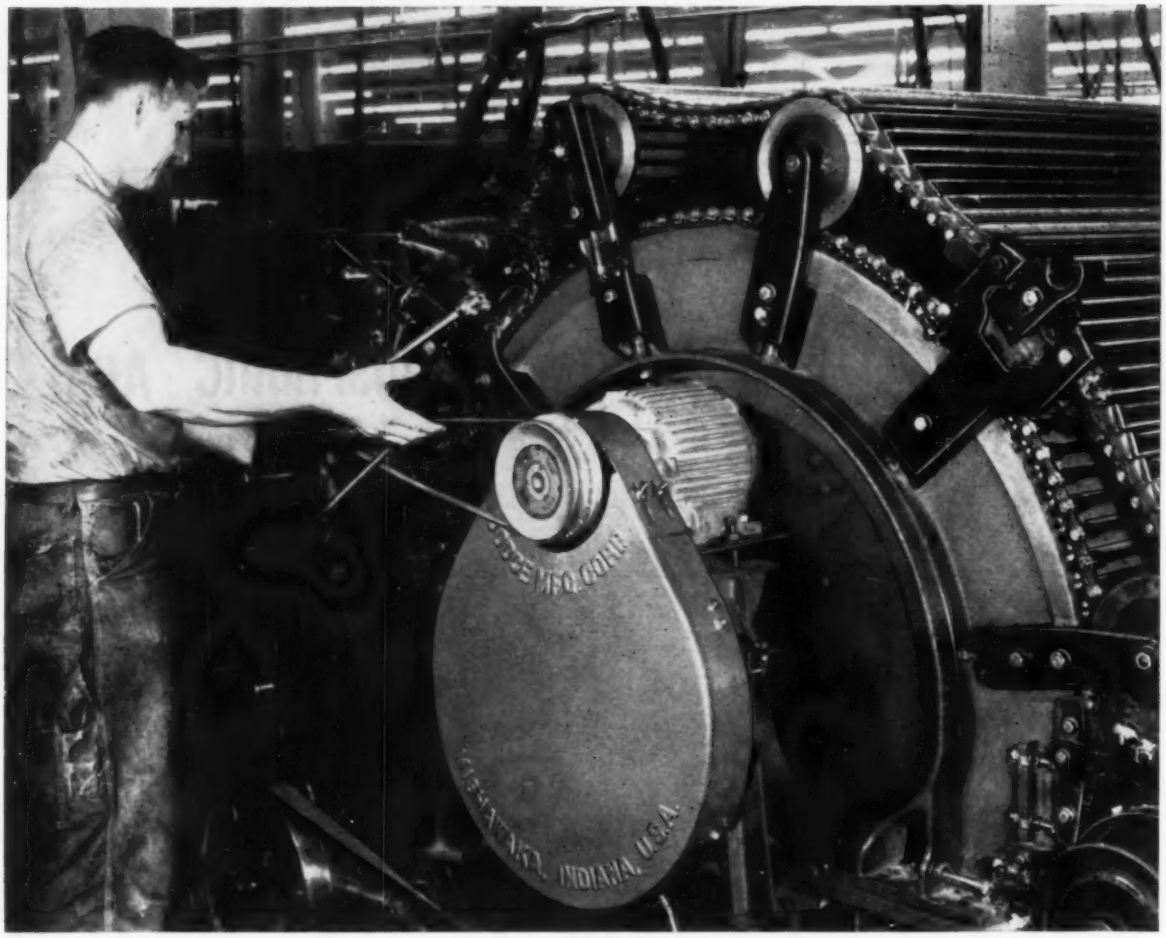
Name_____

Title_____

Company_____

Street_____

City_____ Zone____ State_____



INDIVIDUAL CARD DRIVE GIVES SOFT STARTS

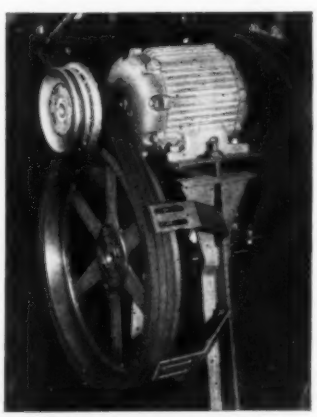
...ACCELERATES QUICKLY TO FULL SPEED

...AVOIDS EXCESSIVE STRAIN

Flexidyne, heart of this new complete Card Drive by Dodge, picks up the load smoothly... protects machinery and motor against shock and overload . . . delivers 100% efficiency during running cycle. Flexidyne, *the Dry Fluid Drive*, eliminates need for high torque motors and expensive controls, saves power, provides a new and better way to drive textile machines.

Note the special aluminum pulley mounted on Flexidyne housing, enabling quick, convenient operation of stripper. Pedestal has adjustable motor base to control tension on V-belts. You should have the full story of all the advantages of the new Dodge Flexidyne Card Drive. Ask your local Dodge Distributor, or write us, for new illustrated Bulletin A-653.

DODGE MANUFACTURING CORPORATION
3500 Union Street, Mishawaka, Indiana



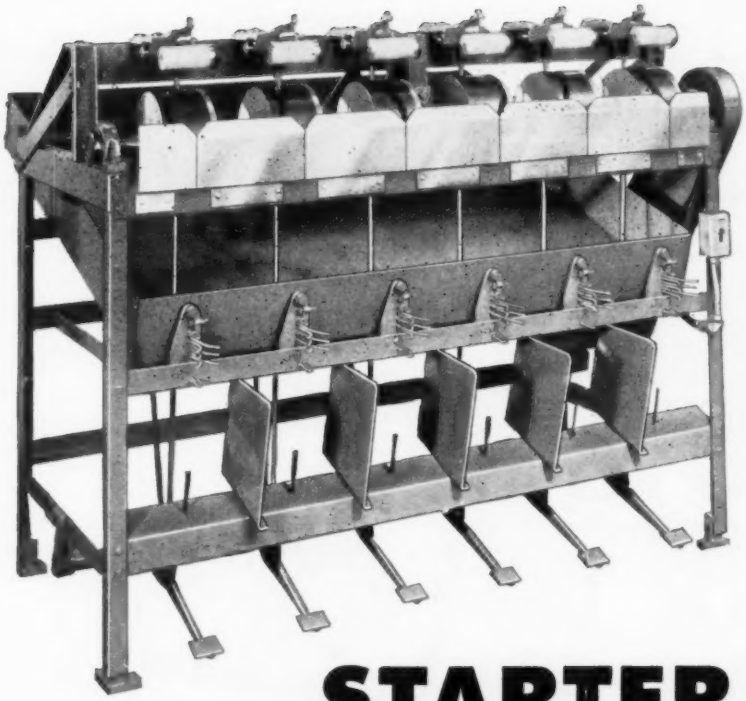
NEW! FLEXIDYNE CARD DRIVE

A complete package, ready to install.

- Flexidyne, keyed to motor shaft
- Pedestal, supporting motor
- V-flat drive
- Aluminum stripper pulley
- Aluminum guard

DODGE
of Mishawaka, Ind.

CALL THE TRANSMISSIONEER—your local Dodge Distributor. Factory trained by Dodge, he can give you valuable help on new, cost-saving methods. Look in the *white* pages of your telephone directory for "Dodge Transmissioneer."



BARBER COLMAN

STARTER MAKER

DESIGNED TO MEET THE NEEDS OF MANY MODERN MILLS

This machine is arranged to wind starter layers of yarn onto a core, from a *cheese* as the supply package. The use of a cheese rather than a bobbin *speeds up* the operation in that *many* "starters" can be made from one supply package; in contrast with the previous method where one bobbin supplied only one, or a limited number, of "starters." Tension fingers positioned above the package allow the proper amount of tension to be introduced.

TAIL FOR MAGAZINING

An additional advantage is that this machine can be used to make a tail of yarn on the "starter," to be used in magazining cheeses. This tail consists of several initial wraps of yarn which are separate and to one side of the main body of the "starter," and subsequently the full cheese. This allows for easy finding of the end, and permits magazining without difficulty. Furthermore, each package will then be stripped completely of yarn, doing away with the necessity of backwinding pieces.

WINDS WOOD CORES

The picture shows wood cores being wound on live spindles, these cores being the kind generally used on twisters, doublers, backwinders, and the like. Adaptors are available for the spindles so that bakelite or dye sleeves can also be wound as "starters" on this machine. The use of a Starter Maker is extremely advantageous for mills dyeing on cheeses, where fresh "starters" are needed every time.

EASILY CONTROLLED, VERSATILE

The operator simply picks up the end from the package, lays it into the tension device, gives it a few wraps around the core, then lets the core down onto the winding drum. When enough yarn is wound on to the core, stepping on the foot pedal lifts the "starter" from the drum and applies a brake. When the end is broken off, part remains held in the tension device, ready for first wraps on the next core. *For complete information, see your Barber-Colman representative, or write direct to the factory.*

AUTOMATIC SPOOLERS • SUPER-SPEED WARPERS • WARP TYING MACHINES • WARP DRAWING MACHINES

BARBER-COLMAN COMPANY

ROCKFORD • ILLINOIS • U. S. A.

FRAMINGHAM, MASS., U. S. A. GREENVILLE, S. C., U.S.A. MANCHESTER, ENGLAND MUNICH, GERMANY

INDIA	MEXICO	BRAZIL	JAPAN	PAKISTAN	PAKISTAN
Batliboi & Company Forbes Street, Fort Bombay, India	J. Rabasa Isabel la Catolica 45-913 Apartado 7348 Mexico D.F., Mexico	Industria e Comercio de Maquinas S. A. "COMASA" R. Glicerio, 537/547 Sao Paulo, Brazil	Do-Yei Shoji Kabushiki Kaisha Atlas Building (7th Floor) 11, Bingo-Machi, 3-Chome, Higashi-Ku Osaka, Japan	Associated Agencies (M'cr.) Ltd. Piccadilly House 11 Piccadilly Manchester 1, England	Associated Agencies (Kar.) Ltd. 730, Muhammadi House McLeod Road Karachi-2, Pakistan

2	3	5	1	4
3	4	1	2	5
1	5	3	4	2
4	1	2	5	3
5	2	4	3	1

it all adds up

Added vertically, horizontally or diagonally, the sum of the above figures is the same...15.

At Cone Mills, teamwork is added to individual skills; the finest raw materials to the most modern textile equipment; pride of past accomplishment to practical future planning. The result? It all adds up... **fabrics of unparalled quality.**

CONE MILLS CORPORATION

EXECUTIVE OFFICES

GREENSBORO • NORTH CAROLINA

Selling Organization: CONE MILLS, INC., 1440 BROADWAY, NEW YORK CITY.

Furniture courtesy of John H. Pray & Sons Co., Boston, Mass.

Shifting markets demand versatile looms — weave these, and other fabrics . . . with UNIFIL®

The amazing versatility of a UNIFIL-equipped weave room means you can switch filling from yarn to yarn, and supply package to supply package, in minutes. No more changing in quilling room . . . yarn inventory on quills practically eliminated . . . minimum work load adjustments.

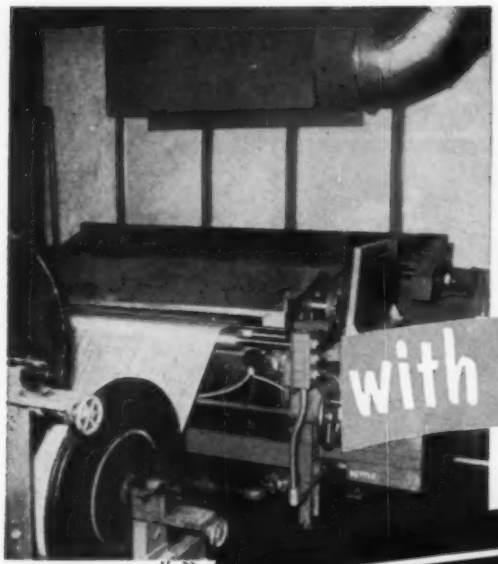
Mills are proving every day that their UNIFIL-equipped looms have unexpected versatility. They are weaving cotton, spun and filament synthetics, textured and novelty yarns, all with high efficiency and improved quality.

UNIFIL can move your mill into new markets, with higher profits, quickly. *The versatile weave room is the* UNIFIL-*equipped weave room.* Your neighbors* have discovered it . . . when will UNIFIL Loom Winders make more dollars for you?

* Amerotron, Berkshire-Hathaway, Burlington, Cannon Mills, Cone Mills, Dover Mill Group, Judson, Laurens, Pansy Weaving Mills, Ponemah Mills, Riegel Textile, Stanwood Mills, J. P. Stevens, United Merchants, Woodside Mills. (A partial list, only.)

23.8.8A

UNIVERSAL WINDING COMPANY



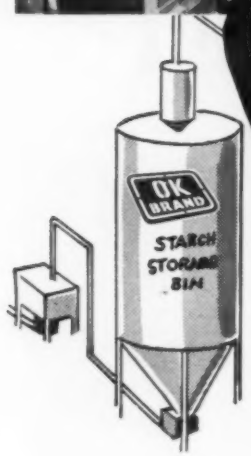
improve your sizing, printing, finishing . . .

with the Greatest of Ease

with

OK BRAND

STARCHES and GUMS



There's a complete line of superior, quality controlled, OK BRAND textile starches and gums to help you get improved finishing, printing and sizing, reduce your costs, and assure you of consistent quality in your production.

You can enjoy all these benefits with the greatest of ease because better, more convenient systems for handling starches and gums have been developed by Hubinger textile experts. One of these trained, experienced textile technicians is near-by, prepared to help with any *special problems* you may have, too. For prompt attention to your needs without obligation, write, wire or phone:

IRA L. GRIFFIN & SONS
P. O. Box 10474
Charlotte, N. C.
(Phone: Franklin 6-5583)

CARL F. MERRITT
Box 346-A
Piedmont, S. C.
(Phone: Greenville 2-0424)

JOE R. MYERS
1817 Dell Drive
Columbus, Georgia
(Phone: Fairfax 7-2244)

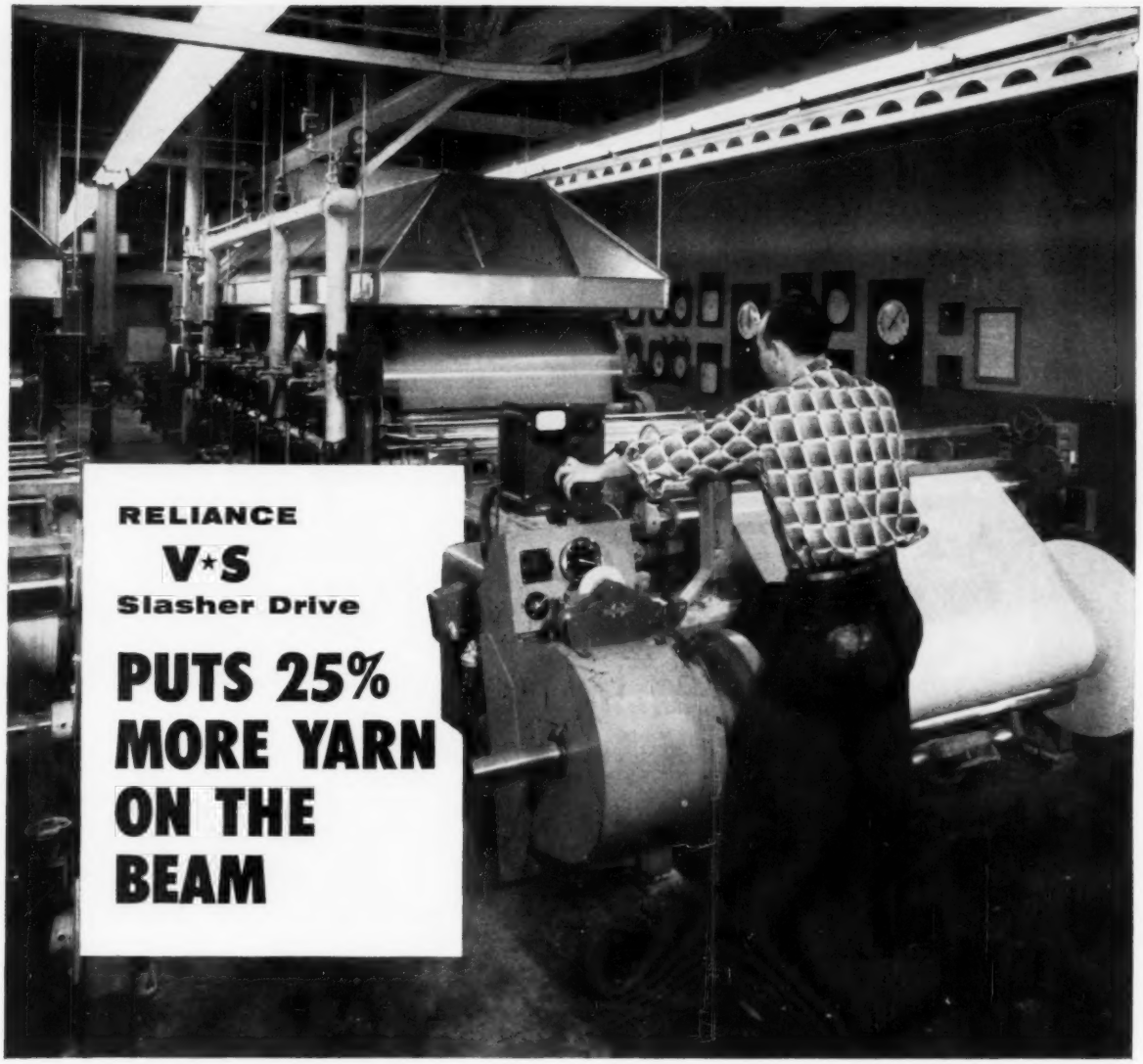
BOSTON OFFICE
192 State Street
Boston, Mass.
(Phone: Capitol 7-3268)

NEW YORK OFFICE
500 Fifth Avenue
New York 36, New York
(Phone: Longacre 5-4343)

The Hubinger Company

KEOKUK, IOWA

HUBINGER — 77 YEARS — QUALITY PRODUCTS from CORN



RELIANCE V★S Slasher Drives give you exacting tension control. Yarn tension is uniform from empty to full beam.

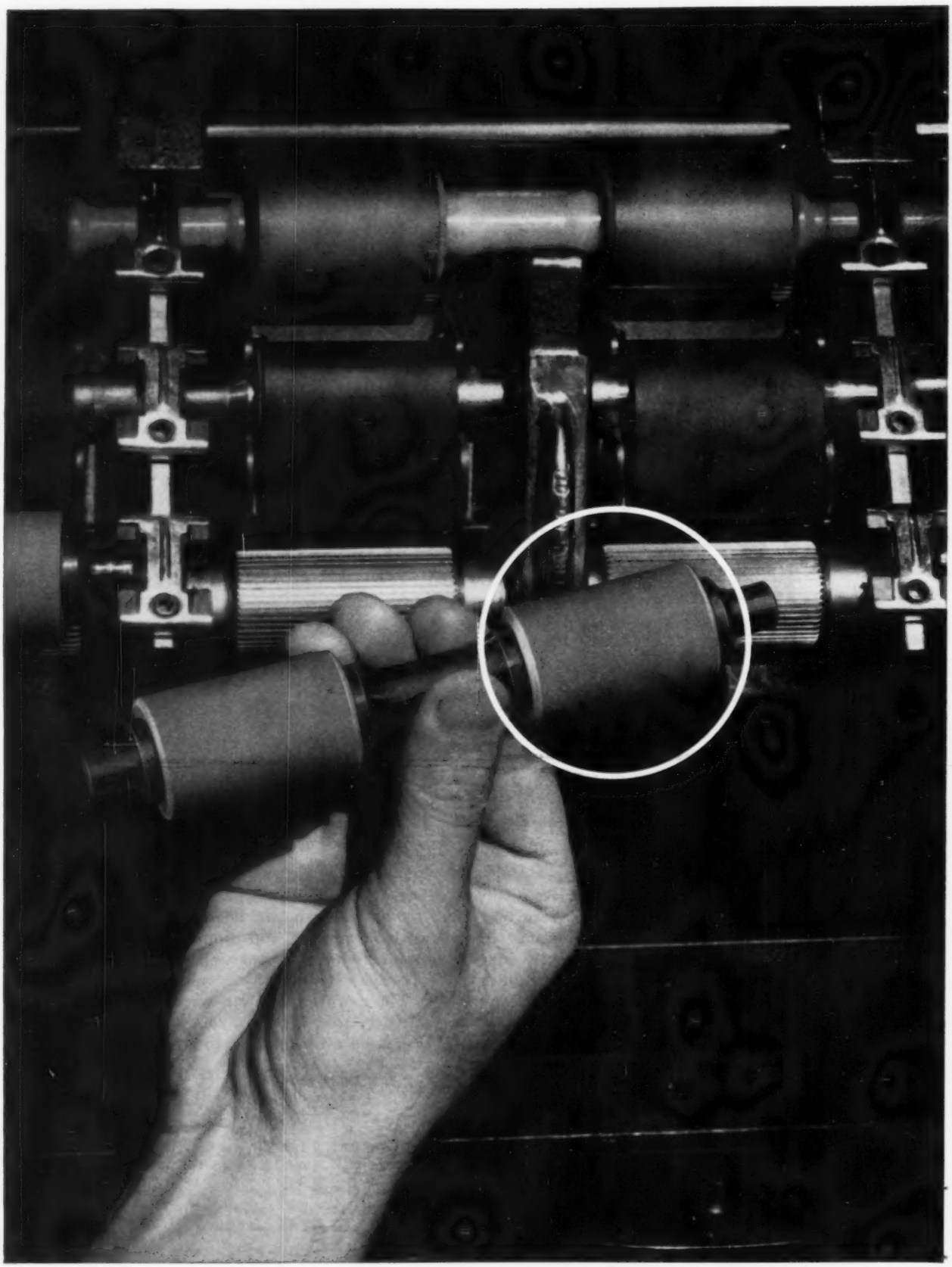
Uniform tension adds to weave room efficiency and also puts more yarn on each beam. A leading textile mill finds it can put 25% more fine count cottons on a beam with their new Reliance powered slasher.

Tension is accurately maintained through the whole speed range of the slasher, 4 to 140 ypm. Ends are handled gently with cushion starting and stopping. Put more productivity into *your* sizing operation by specifying Reliance as your next slasher drive.

For more information on Reliance V★S Slasher Drives, contact your local Reliance Representative or write today for Bulletin D-2506. L-1589

RELIANCE ELECTRIC AND ENGINEERING CO.

DEPT. 209A, CLEVELAND 17, OHIO
CANADIAN DIVISION: TORONTO, ONTARIO
Sales Offices and Distributors in Principal Cities



control lapping

These new Accotex anti-static cots help you eliminate front-roll laps

If your front-roll lap-up rate is increasing, new Accotex anti-static cots may give you the help you need. These new cots are specially made to combat lapping caused by the build-up of static charges on frames.

The static problem is growing because of the increased use of synthetic fibers, the trend toward non-metallic cap bars, and the elimination of other metal-to-metal contacts on high draft equipment. Armstrong Accotex anti-static cots bleed off static charges continuously. This prevents such charges from accumulating on yarn or cots.

These new Accotex cots will also help you get maximum production of top-quality yarn, whether you're spinning natural fibers, synthetics, or blends . . . and regardless of the kind of equipment you're using.

For example, if your frames are equipped with revolving clearers, the Accotex NO-764 anti-static cot will give you excellent performance with minimum lapping.

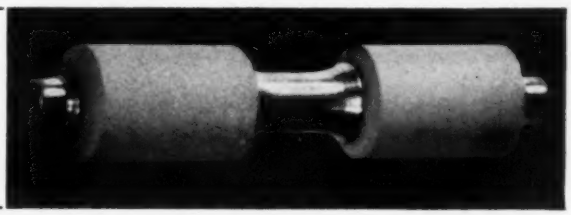
If eyebrowing is a problem on spinning and roving frames with flat clearers, a switch to Accotex NC-762 will probably help to control it. This new cot has just the right surface friction to pack the waste back under the clearers. In addition, many mills report that the anti-static properties of the NC-762 help to reduce waste substantially.

Two other materials round out the Accotex anti-static line. Where a soft roll covering is required in drawing, roving, or spinning operations, Accotex NO-768 is recommended. On comber detaching rolls, Accotex NO-763 is giving excellent results in many mills.

The new anti-static cots . . . like all other Accotex cots . . . are built to give you long service. They need rebuffing infrequently—usually less than once a year. Rebuffing does not impair their built-in anti-static properties.

For more information about these new anti-static Accotex materials, get in touch with your Armstrong representative. Or write to Armstrong Cork Company, Industrial Division, 6510 Ivy Street, Lancaster, Pennsylvania.

No matter what fiber or blend you're spinning, no matter what kind of equipment you have, there's an Armstrong Accotex Cot that's specially designed to help you get top-quality spinning.



Armstrong ACCOTEX COTS

. . . used wherever performance counts

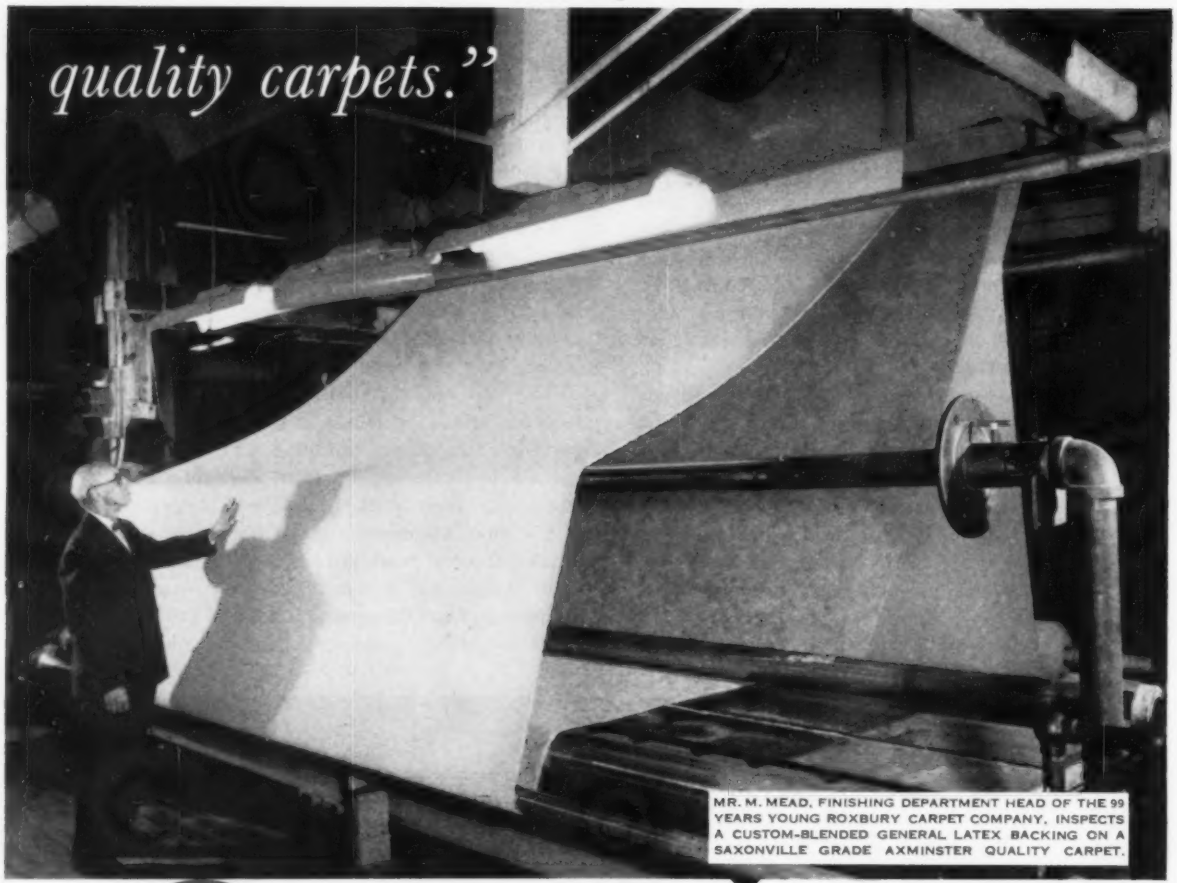
"Visit us at the Greenville Show at our new location in Annex 4, Booth 816"

"When it comes to rug backings," says Mr. M. Mead of Roxbury Carpet Company, Saxonville, Massachusetts, "we need more than a dependable source of supply. We need facts . . . facts about new polymers, new processes that can help us to maintain our high standards of quality.

"That's what the General Latex 'facts service' provides. Their people keep us informed at all times on new developments — save us time, trouble and money."

Roxbury Carpet Company, one of the nation's oldest manufacturers of woven carpets, receives this type of service from General Latex. So do all other General Latex customers, large and small. Information about the "facts service" is yours for the asking. Write today.

"General Latex 'facts service' helps us sell quality carpets."



MR. M. MEAD, FINISHING DEPARTMENT HEAD OF THE 99 YEARS YOUNG ROXBURY CARPET COMPANY, INSPECTS A CUSTOM-BLENDED GENERAL LATEX BACKING ON A SAXONVILLE GRADE AXMINSTER QUALITY CARPET.

GENERAL LATEX AND CHEMICAL CORPORATION

. . . 666 Main Street, Cambridge 39, Mass.

General Latex and Chemical Corporation (of Ohio) Ashland, Ohio
General Latex and Chemical Corporation (of Ga.) 1206 Lamar Street, Dalton, Georgia
General Latex & Chemicals (Canada) Ltd. 425 River Street, Verdun, Montreal, Canada
General Latex & Chemicals (Canada) Ltd. Brampton, Ontario, Canada

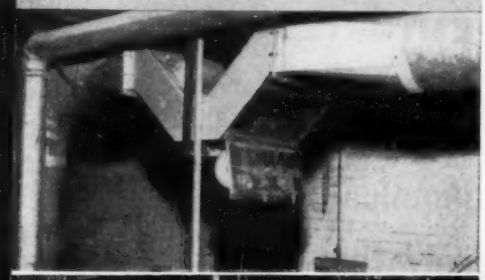
VULTEX

Latex importers and compounders. Representatives in principal cities — exclusive agents for sale in U.S.A. of Harrisons & Crosfield Malayan Latex — sales agent in U.S.A. for Goodyear's PLIOLITE Latices

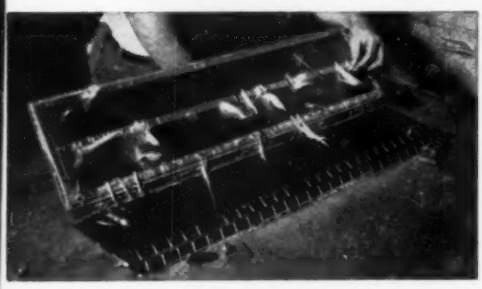
You never "over-buy" or "under-protect" with ERIEZ

job-rated textile magnets

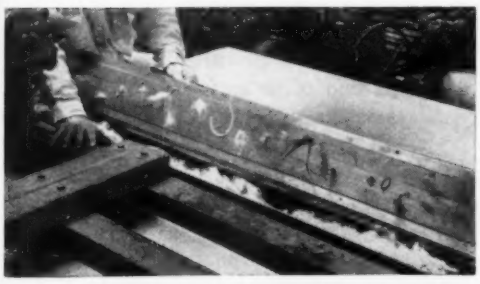
Typical installations where different models and magnetic strengths of Eriez textile magnets were required to provide proper protection.



Antiseptic Mattress Co., Mass. Two powerful Eriez Magnets, used to remove tramp iron from a cotton line, have proved extremely effective by practically eliminating machinery damage, reducing downtime and loss of production. The first unit is a Magnetic Hump in the line between the picker and the condenser; the second is an ULTRAPOWER magnet located just above the Spiked Apron.



Greenwood Mills, S. C. Since their installation, several Eriez SUPERPOWER magnets have improved plant safety by completely eliminating fire breakouts. These units have also reduced machinery damage at the textile mill by removing all traces of metal contamination from the processing lines before the material passes through the feeders.



James Lees and Sons Company, Va. This rug manufacturer has considerably reduced machinery damage with a number of Eriez MODEL D Spiked Apron Magnets installed in the carding department. In addition, the company states, magnets have increased production by cutting the amount of downtime and have also lowered maintenance costs.

Do the magnets you now have (or contemplate buying) give you the best possible protection at the lowest cost?

Are they strong enough to remove all traces of tramp iron from textile processing lines before it can cause fires, machinery damage or loss of production?

With Eriez textile magnets, you're *sure* of getting the proper size, strength and type of magnet best suited to your specific needs. Eriez, leader in research and design of permanent magnetic equipment, introduced virtually every type of magnetic separator now used in the textile industry. To keep pace with ever changing needs, Eriez is constantly developing new models in varying strengths to produce the most efficient separators at lowest cost for every application.

In addition to providing the most complete line of non-electric textile magnets available, Eriez offers the buyer these important advantages: magnetic strength is guaranteed indefinitely; all but lowest-priced models are Factory and Mill Mutual approved, and are 53% to 70% stronger than other listed magnets; availability through your OEM.

A skilled laboratory and field staff thoroughly analyzes your requirements. By studying your particular problem, they can *and will* recommend Eriez' *lowest cost magnet* in proper size, type, and strength to do the job best without "over-buying," without danger of "under-protecting".

Eriez magnets, designed *specifically* for the textile industry, provide *more magnetic strength per dollar* than any other magnetic units. For the best protection and the most efficient installation at lowest cost, do as hundreds of other satisfied customers have done—look to Eriez *first!*

All Eriez magnets are non-electric, self-contained. They operate without any wires or attachments. Magnetic power is guaranteed forever. There are no operating or maintenance costs; first cost is the *last*. The following models, for use in textile applications, are approved by Factory Mutual Fire Prevention Bureau and Mill Mutual Fire Prevention Bureau: Extrapower, Ultrapower and Superpower.

FREE! . . . interesting literature on Eriez Spiked Apron magnets for textile use. Send today!

ERIEZ HI-POWR MAGNETIC SEPARATORS

Clip it, mail it!

ERIEZ MANUFACTURING COMPANY
72-K MAGNET DRIVE
ERIE, PA.

Please mail literature concerning Eriez' complete line of textile magnets.

NAME _____

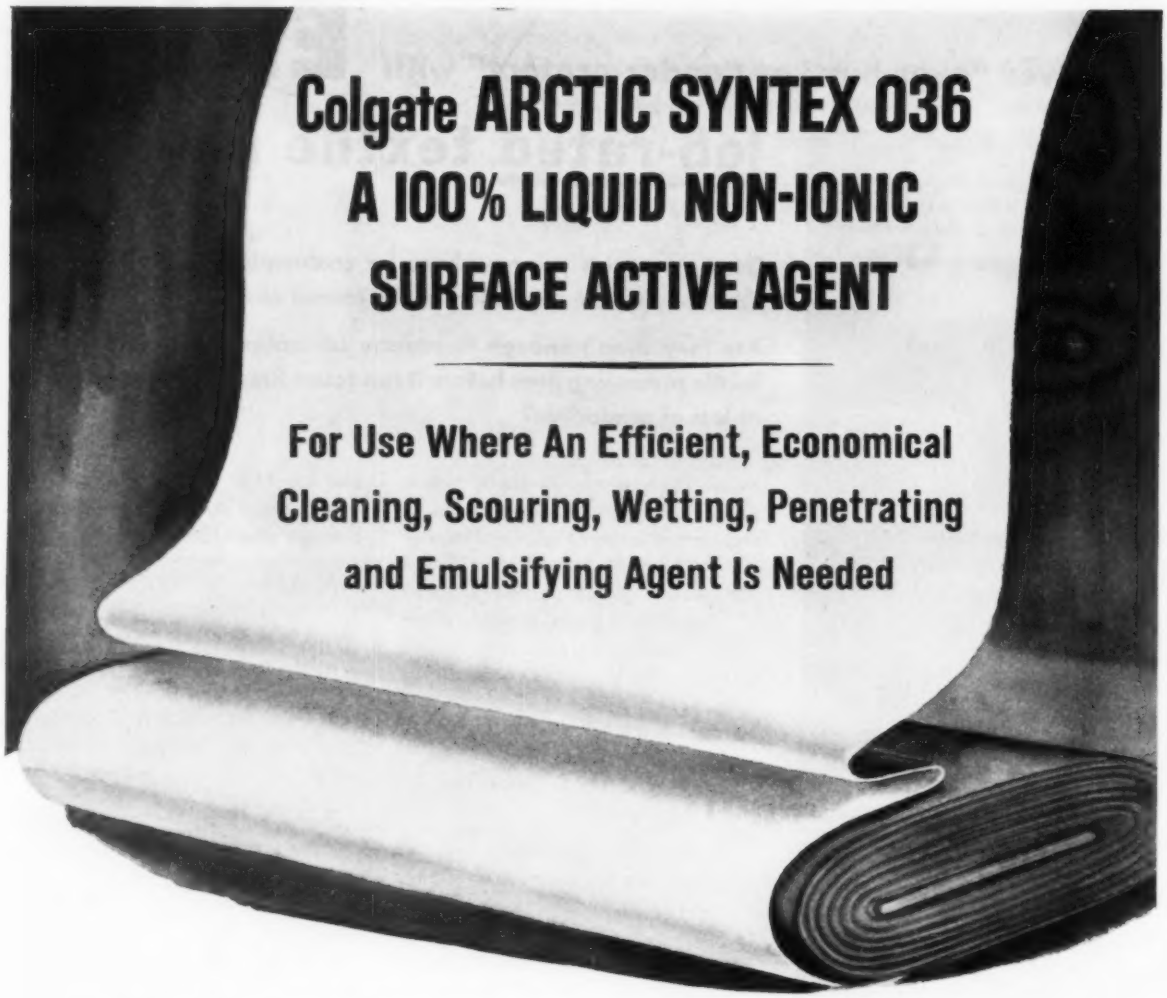
COMPANY _____

ADDRESS _____

CITY _____ STATE _____

Colgate ARCTIC SYNTEX 036
A 100% LIQUID NON-IONIC SURFACE ACTIVE AGENT

For Use Where An Efficient, Economical Cleaning, Scouring, Wetting, Penetrating and Emulsifying Agent Is Needed



Compatible with anionic, cationic and non-ionic chemical substances, ARCTIC SYNTEX 036 is not inactivated by acids, alkalies, oxidizing or reducing agents; or by most organic ions.

CHEMICAL ANALYSIS

	Per cent as received
Active Ingredient	99+
Moisture	0.5 max.
Ash Content	0.1 max.

STABILITY

Hard Water	Unaffected
Metal Salts	Unaffected
Alkalies	Unaffected
Acids	Unaffected
Oxidizing & Reducing Agents	Unaffected

Stable for long periods at high temperatures. Will not form salts with metal ions. Very effective at low concentrations. Stable and effective in both hard and soft water.

RECOMMENDED

For Use In Textile Processes Or Compounds:

(1) Where emulsification and removal of oil and grease are desired. **(2)** In acid or alkaline solutions where other surface active agents may be inactivated. **(3)** In hard water or solutions of metal salts. **(4)** In combination with other anionic and cationic agents and other surface active or nonsurface active agents.

More Technical Service Available!

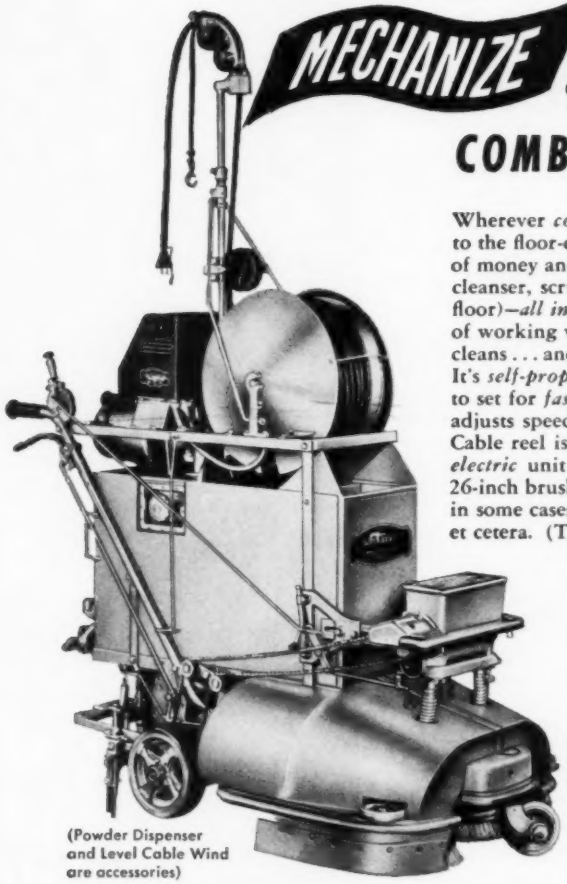
Our enlarged Technical Service staff will be happy to help you solve your soap and synthetic detergent application problems. Write the Colgate-Palmolive Company Associated Products Dept.

COLGATE-PALMOLIVE COMPANY

300 Park Ave., N.Y. 22, N.Y.

Let's not clean away dollars and man-hours with costly, inadequate floor care

MECHANIZE *your floor-cleaning with a* COMBINATION SCRUBBER-VAC!



(Powder Dispenser and Level Cable Wind are accessories)

Wherever *combination-machine-scrubbing* is the practical solution to the floor-cleaning problem, any lesser, slower method is wasteful of money and manpower. A *Combination Scrubber-Vac* applies the cleanser, scrubs, flushes if required, and picks up (damp-dries the floor)—*all in one operation!* Maintenance men like the convenience of working with this single unit . . . the thoroughness with which it cleans . . . and the features that make the machine simple to operate. It's *self-propelled,* and has a *positive* clutch. There are no switches to set for *fast* or *slow* — slight pressure of the hand on clutch lever adjusts speed to desired rate. The powerful vac performs quietly. Cable reel is self-winding. *Finnell's 213P Scrubber-Vac* at left, an *electric* unit for heavy duty scrubbing of large-area floors, has a 26-inch brush spread. Cleans up to 8,750 sq. ft. per hour (and more in some cases), depending upon condition of the floors, congestion, et cetera. (The machine can be leased or purchased.)

Finnell makes *Scrubber-Vac Machines* in a full range of sizes, and *gasoline* or *propane powered* as well as *electric* models. From this complete line, you can choose the size and model that's exactly right for *your* job (no need to *over-buy* or *under-buy*). It's also good to know that *a Finnell Floor Specialist and Engineer is nearby* to help train your maintenance operators in the proper use of the machine . . . to recommend cleaning schedules for most effectual care . . . and to make periodic check-ups. For demonstration, consultation, or literature, phone or write nearest *Finnell Branch* or Finnell System, Inc., 1310 East Street, Elkhart, Indiana. Branch Offices in all principal cities of the United States and Canada.

FINNELL SYSTEM, INC.

Originators of Power Scrubbing and Polishing Machines

Everything FINNELL for Floor Care

BRANCHES IN ALL PRINCIPAL CITIES

See the Finnell Exhibit • **Southern Textile Exposition** • **Greenville, S. C.** • **Oct. 6-10** • *Space 110*

No. 8 in a series—how your Du Pont salesman is backed by many sales-building activities, including Fiber Research, Technical Service, Fabric Development and Merchandising.

Has fiber facts ...does travel

Here we see Pat Crow, Du Pont retail-training specialist, in one of her "classrooms". In this instance, it's the sweater department of R. H. Macy in New York City. Her pupils are salesclerks, learning through informal talk and demonstration the special properties and latest developments in sweaters of "Orlon"* acrylic fiber.

Pat is a member of Textile Fibers Product Information Group. She and her co-workers travel up, down and around the country educating store personnel on Du Pont's family of textile fibers. Last year, for example, they conducted training programs in over 1,300 stores... personally instructed over 15,000 store personnel. And retail training is but one facet of the broad educational activities of this group, whose members also work with schools, civic and scientific groups, frequently appear on radio and television, and answer thousands of letters inquiring about Du Pont fibers every month.

The introduction, within a relatively short period of time, of man-made fibers with new properties, uses, characteristics and their many blends created the need for such an information service. To meet this need, Du Pont, in 1951, launched an educational program on its fibers. The program's purpose and scope was, and still is, unique.

The facts, attitudes and reactions reported from the field by Pat Crow and her co-workers help give Du Pont a better grasp of day-to-day retail merchandising needs. Their training assistance paves the way for more efficient and expanded selling of merchandise made with Du Pont fibers . . . contributes to increased demand, broader markets.

This is one of the ways Du Pont works to increase the market for its fibers and thus benefit its customers. It's one of the reasons why Du Pont salesmen are able to bring to their customers a range of merchandising and technical information unique in the textile industry.

From raw fibers to retail sales
...Du Pont builds profit for you

PRODUCT and PROCESS NOTES FROM DU PONT

Expanded Production of Du Pont 420 Nylon. New and expanded production facilities for Du Pont 420 nylon went into operation at Seaford, Delaware, this July. Now, with increased supply, we expect to see this fiber in a broad range of fabrics and in a wide variety of garments destined for rugged wear, such as boys' play wear and men's work clothes. This new fiber has been specially engineered to make possible outstanding abrasion resistance in such merchandise. Up to 70% greater durability is possible when the warp contains at least 25% Du Pont 420 nylon in an intimate blend with cotton. Ask your Du Pont salesman for more information about Du Pont 420 nylon.

New Binder for Non-Woven Fabrics. A new, low-melting thermoplastic binder for non-woven fabrics is now available. Known as "Dacron"** polyester fiber binder, this new product is manufactured as uncrimped "Dacron" staple with an average denier per filament of about eight to ten. It is available in a cut length of one and a half inches. This fiber binder makes it possible to manufacture non-woven fabrics of 100% "Dacron" which take full advantage of the fiber's excellent dimensional stability, heat resistance and good electrical properties. This fiber binder may be blended with conventional "Dacron" staple and can be processed on such conventional web-forming equipment as carding machines, garnett cards, or air-deposition units.

Larger Acetate Beam Packages. In line with our aim to make available advanced, economical yarn put-ups, we now have in production larger acetate beams for both knitters and weavers. For manufacturers of tricot, we have 30-inch-flange-diameter beams capable of holding over twice the yardage of 55 denier on standard 21-inch-diameter beams. For weavers, we have section beams with 36-inch-diameter flanges which make possible greater yardage and a more efficient slasher operation on standard constructions.

*"Orlon" is Du Pont's registered trademark for its acrylic fiber.
**"Dacron" is Du Pont's registered trademark for its polyester fiber.

Enjoy the "Du Pont Show of the Month" on CBS-TV

DU PONT
REG. U. S. PAT. OFF.

Better Things for Better Living
... through Chemistry

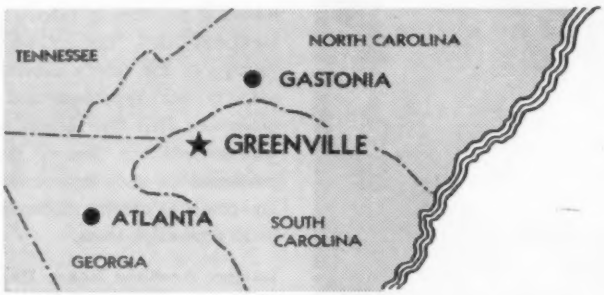
Now a New Southern Plant

to better serve your increasing demands

FOR **Tuffer** TRADE MARK *Card Clothing*

right in the Heart of the Textile South

at Greenville, South Carolina



Midway between our Gastonia and Atlanta Plants

STOCK and SERVICE wait your request

both COTTON and WOOLEN Cards

with 92 years of experience behind them

Our Southern Agent E. Jack Lawrence is Manager

TELEPHONE CEdar 9-6263

or write to Howard Bros., 12 Wade Hampton Blvd., Greenville

We will look for You at Booths 252-253 at the Southern Textile Exposition in Greenville, October 6th to 10th

T11

save money in the long run...!

The difference in cost between an ordinary paper tube and a Sonoco precision-made tube may appear as a minute saving, yet the superior performance characteristics that are built-in to all Sonoco tubes result in production economies which in the long run far exceed any small initial price differentials.

There are two reasons Sonoco paper tubes pay off. One, Sonoco paper tubes are engineered for the job using technical knowledge gained by more than 60 years' experience in producing textile paper carriers; and two, because Sonoco paper tubes are laboratory controlled for uniformity and quality throughout our completely integrated manufacturing operations from pulp to finished product.

If you agree that greater production efficiency will lower costs, try Sonoco job-engineered paper tubes. Our sales-engineers are available at your convenience.

VISIT OUR SPACE
SOUTHERN TEXTILE EXPOSITION
GREENVILLE, S. C.
BOOTH 244

SONOCO

Products for Textiles

SONOCO PRODUCTS COMPANY

Main Office—HARTSVILLE, S. C. • MYSTIC, CONN. • AKRON, IND. • LOWELL, MASS. • PHILLIPSBURG, N. J. • LONGVIEW, TEXAS • PHILADELPHIA, PA. • LA PUENTE, CAL. • ATLANTA, GA. • GRANBY, QUEBEC • BRANTFORD, ONTARIO • MEXICO, D. F.

1744

WARNING!

all that glitters is not Metlon!

Despite the fact that most metallics are made of the same basic ingredients . . . aluminum foils and DuPont's Mylar polyester film . . . the end products vary tremendously in their ability to withstand manufacturing processes, and to perform as advertised in the consumer products in which they ultimately appear. Why? Simply because of the way they're fabricated.*

HOW CAN YOU BE SURE THAT THE METALLICS YOU USE WILL LIVE UP TO THEIR GLITTERING PROMISES?

One good way is to insist on Metlon Metallic Yarns. There are six different kinds of Metlon yarns . . . each with different virtues and limitations. The Metlon Corporation tells you exactly what you can expect of each one.

OUR TECHNICIANS WILL HELP YOU TO CHOOSE THE RIGHT METLON YARN

for your particular manufacturing problem. They'll put their years of experience in the exciting world of metallics at your disposal whenever you say. They can save you time, money and returns . . . and their assistance is yours for the asking.

METLON®

with MYLAR*

METALLIC YARNS

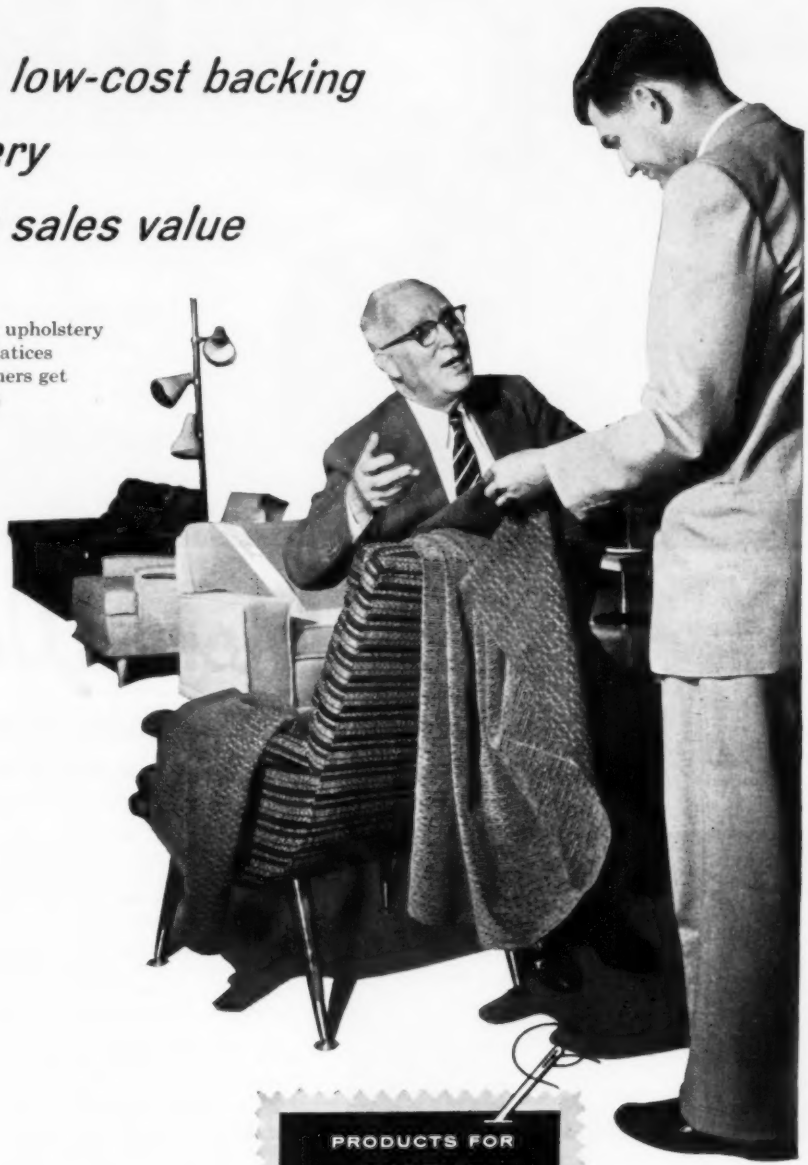
*DuPont's Registered Trademark for its Polyester Film.

THE METLON CORPORATION, 432 Fourth Avenue, New York 16, N.Y. A Subsidiary of Acme Backing Corporation

News about

B.F.Goodrich Chemical *raw materials*

Here's low-cost backing for upholstery to boost sales value



You can really process for profit with upholstery backings based on Geon® or Hycar® latices or combinations of both. Your customers get important manufacturing advantages and *their* customers get appealing product features.

For example, you can tailor the backing to give the "hand" you want with any fabric construction. These backings will also improve shape retention—make it easier to get the right fit without distorting the fabric. At the same time, they provide the extra selling advantages of dimensional stability and greater resistance to wrinkling, raveling, tearing and snagging.

Best of all, these coatings will really last. Tests show they won't discolor or stiffen even after aging, cleaning, or exposure to heat and light. They go on easily to stay on permanently.

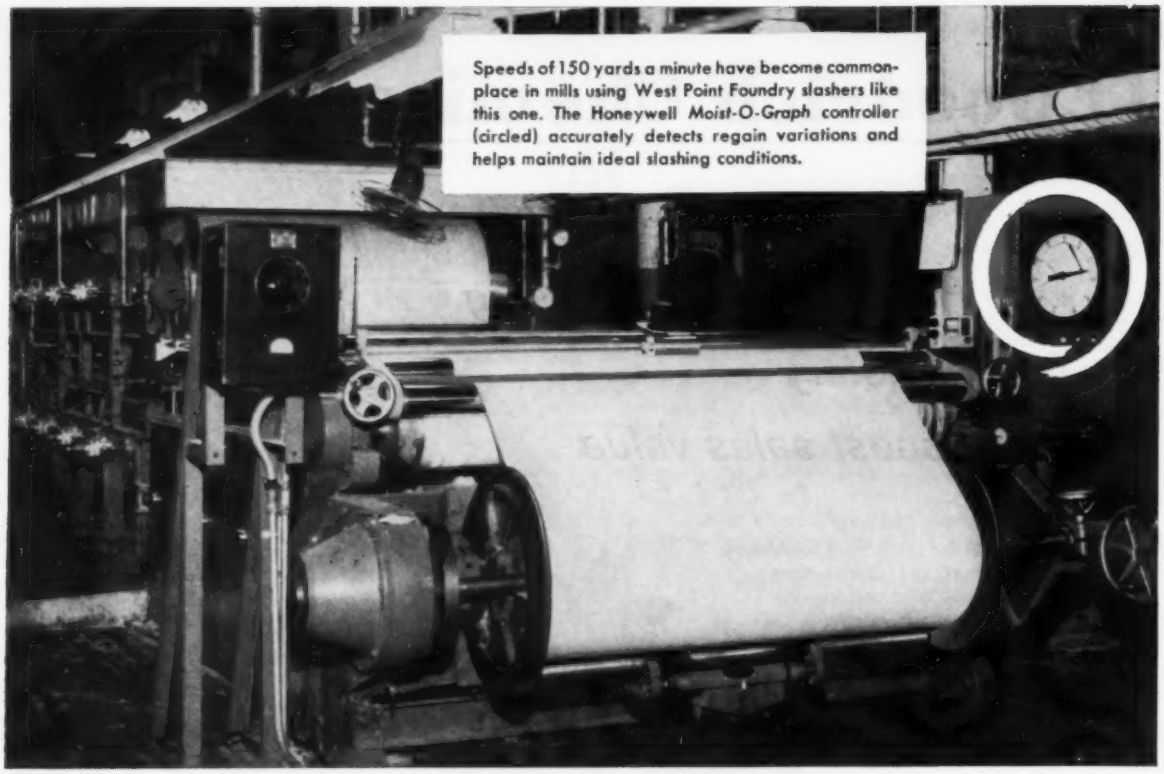
Here's another example of the service you can get to provide better fabrics for wider appeal, at lower cost. For information, write Dept. SA-5, B.F.Goodrich Chemical Company, 3135 Euclid Avenue, Cleveland 15, Ohio. Cable address: Goodchemco. In Canada: Kitchener, Ontario.

PRODUCTS FOR TEXTILE IMPROVEMENT

B.F.Goodrich Chemical Company
a division of The B.F.Goodrich Company

B.F.Goodrich

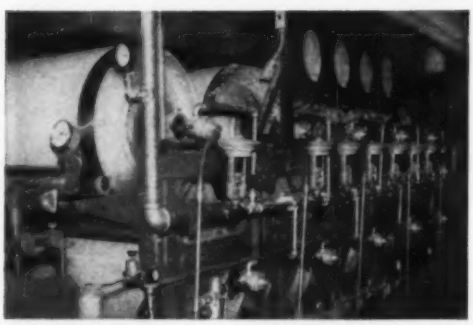
GEON polyvinyl materials • HYCAR American rubber and latex
GOOD-RITE chemicals and plasticizers • HARMON colors



Speeds of 150 yards a minute have become commonplace in mills using West Point Foundry slashers like this one. The Honeywell *Moist-O-Graph* controller (circled) accurately detects regain variations and helps maintain ideal slashing conditions.

Slash More Warp

. . . with West Point Foundry multi-cylinder slashers equipped with Honeywell moisture and temperature controls



Honeywell instruments and diaphragm control valves provide accurate temperature control with steam economy. These temperature controllers and valves supply just the right amount of steam to the drying cylinders.

Close control of moisture and temperature by Honeywell instrumentation assures dependable, high-speed performance of West Point Foundry and Machine Co. slashers. Users find significant increases in slasher production rates and weave room efficiency, while cutting costs.

Honeywell temperature controllers regulate the flow of steam into the drying cylinders with the extreme accuracy required for properly graduated heating. A Honeywell *Moist-O-Graph* keeps beam moisture constant for best possible weaveability.

This combination of control and slasher design has caused drying rates to exceed 1600 pounds per hour for nine-cylinder West Point slashers and more than 2300 pounds an hour for eleven-cylinder models. Steam economy is an important added advantage.

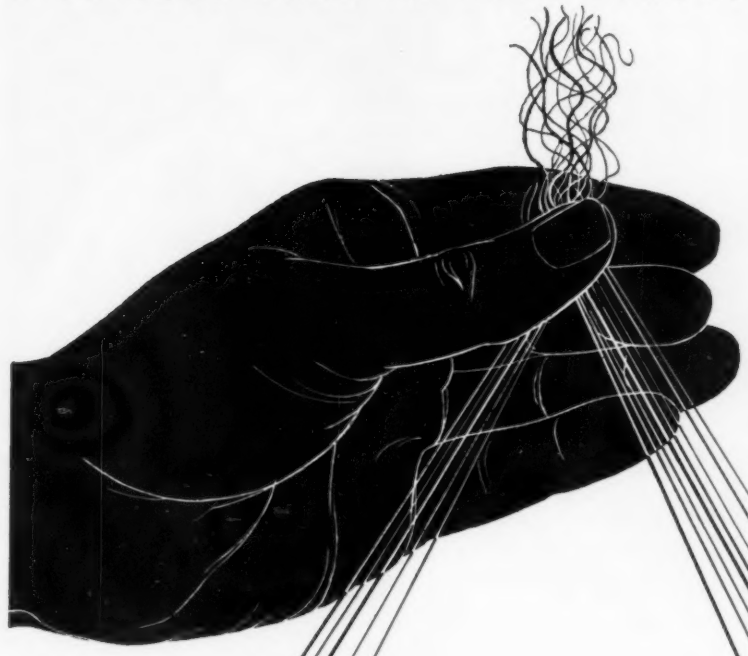
For details on how you can best apply slasher instrumentation to advantage in your own mill, call your nearby Honeywell field engineer. He's as near as your phone.

MINNEAPOLIS-HONEYWELL, Wayne and Windrim Avenues, Philadelphia 44, Pa.

Honeywell

H HONEYWELL *First in Control*

A SKILLED HAND IN CHEMISTRY . . . AT WORK FOR YOU



NOPCOSTATS*

make your fibers behave

A unique series of fiber lubricants for synthetic fibers and blends†

Nopco, in a cooperative effort with the fiber producers and the tow-to-top convertors, has developed a series of antistatic lubricants called Nopcostats which will meet all synthetic fiber finish needs.

The Nopcostats are a set of tools that allow you to change the draw characteristics of your fibers in order to achieve the necessary balanced processing requirements. They are a highly potent series of lubricants which accomplish results in amounts of from ¼ to 1% o.w.f.

*Nopcostat is a registered trademark of Nopco Chemical Company.

†Nopcostats are also available for wool fibers and yarns and for yarns processed on the woolen and worsted systems.

	Products			
	Nopcostat AS-40	Nopcostat LV-40	Nopcostat 2152-P	Nopcostat 2152-X
	Fibers			
	Acetate Viscose Arnel[1]	Acrylic types such as Orlon,[2] Dynel,[3] Acrilan,[4] etc.	Nylon Dacron[2]	Nylon Dacron
Interfiber friction	Low	Medium	High	High
Fiber-to-metal friction	Medium high	Medium	Low	Low
Antistatic effect	Excellent	Excellent	Excellent	Excellent

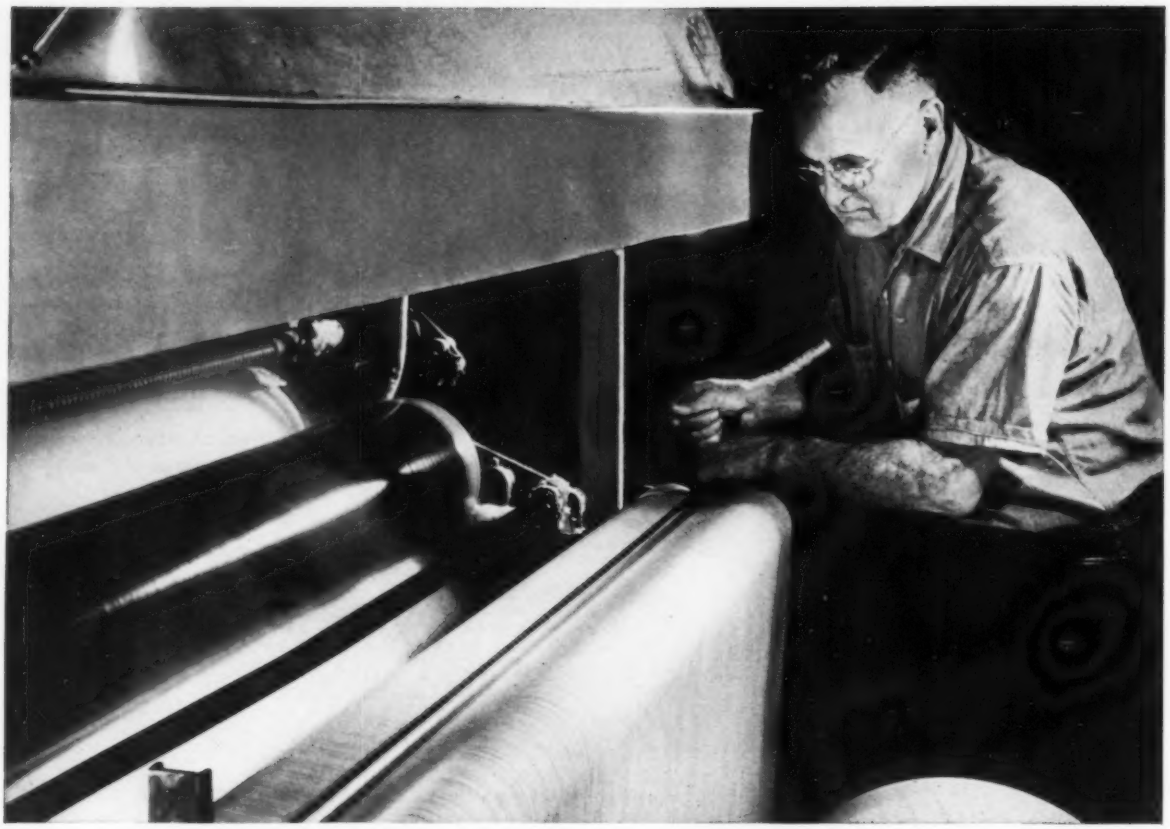
[1] Registered trademark of Celanese Corp. of America
[2] Registered trademark of E. I. du Pont de Nemours & Co., Inc.
[3] Registered trademark of Carbide and Carbon Chemical Co.
[4] Registered trademark of Chemstrand Corp.

When you want a specific lubricant for a specific job, you will find the right formulation in the Nopcostat series. Write today to Nopco, a pioneer in fiber lubricants to obtain a new bulletin describing the complete Nopcostat line and methods of application. Nopco Chemical Company, Textile Chemicals Division, 60 Park Place, Newark 2, N.J.

NOPCO®

Vital Ingredients for Vital Industries

Plants: Harrison, N.J. • Richmond, Calif. • Cedartown, Ga. London, Canada



How Modern Mills Improve Slashing Operations

Time after time, mills around the country report greatly improved slashing operations with TEN-O-FILM starches. Compatible with most adjuncts and available in a wide range of fluidities, TEN-O-FILM users praise its many unique operating advantages.

TEN-O-FILM is ready to use after cooking thirty minutes. Many mills find need for less plasticizer than with conventional starches. The stability of TEN-O-FILM keeps size usable despite prolonged heating and cooling. Size made with TEN-O-FILM does not congeal or "skin over" at lower-than-normal temperatures . . . it can be held for reasonable shutdown period without gelation.

TEN-O-FILM offers several additional features including unequalled clarity of film, economy in desizing and dyeing.

Our technical service group has had wide experience and marked success in adapting this versatile starch to the varied needs of many textile applications. The production advantages and process improvements achieved by TEN-O-FILM can be fitted to your needs by consulting our textile technicians. Contact our nearest sales office or write direct.

TEN-O-FILM® starches

Other fine products for the Textile Industry: EAGLE® • FOXHEAD® CLARO® • GLOBE® starches • GLOBE® and EXCELLO® dextrines

CORN PRODUCTS SALES COMPANY • 17 Battery Place, New York 4, N. Y.

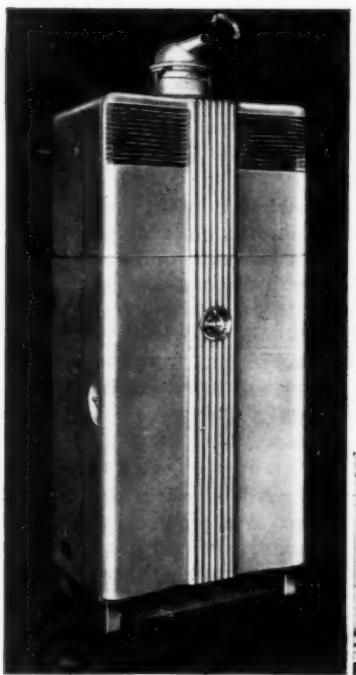
BETTER AIR CONDITIONING FOR EVERYBODY EVERYWHERE

Carrier

For precise temperature and humidity control!

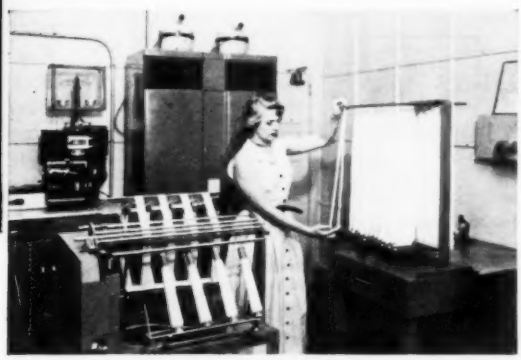
How precise? Carrier Laboratory Weathermakers are designed to maintain A.S.T.M. standard conditions of 23° C (73.4° F) and 50% relative humidity in small testing laboratories. Of course, within certain limitations they can also be used effectively for many other room conditions. Operated within capacity and design conditions, they can maintain a space temperature within plus or minus 1° F and humidity within plus or minus 1½% around the clock every day of the year.

The Carrier Laboratory Weathermaker is a product of years of specialized experience in all phases of atmospheric control, involving applications of air conditioning and refrigeration to industrial plants and processes. Want complete facts about performance and application? Call the Carrier office nearest you. Or write Carrier Corporation, Syracuse 1, New York.

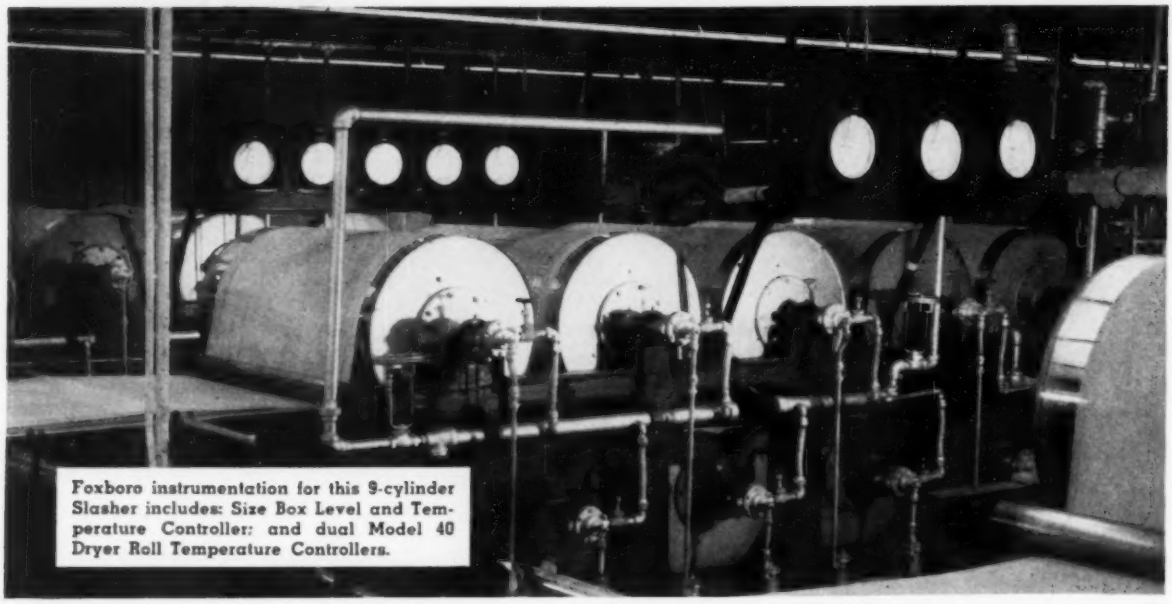


Carrier Laboratory Weathermakers. Completely self-contained and fully factory engineered. Delivered to your mill ready for installation with simple water and service connections. Remote thermostat and hygrostat connect to unit with low-voltage wiring. Available in capacities from 20,300 to 54,000 Btu per hour.

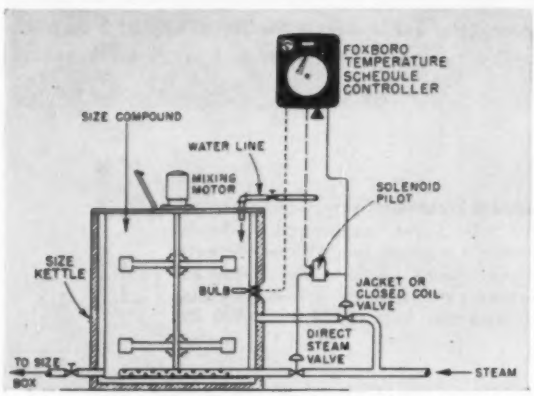
Typical Laboratory Weathermaker installation in a textile mill. Easy to service and keep clean, these units are also exceptionally quiet. As temperature is maintained by an electric reheater, a laboratory is independent of all other heat sources. Constant temperatures are assured through nighttime or holiday heating-system shutdowns.



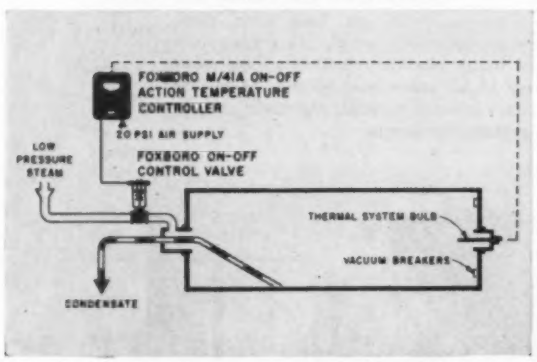
FOXBORO AUTOMATES THE SLASHER ROOM!



Foxboro instrumentation for this 9-cylinder Slasher includes: Size Box Level and Temperature Controller: and dual Model 40 Dryer Roll Temperature Controllers.



Foxboro Dual-Purpose Size-Kettle Control



Foxboro On-Off Control System for Dryer Rolls

complete control system:

- **cooks — stores size at proper temperatures — automatically**
- **holds dryer roll temperatures constant — automatically**
- **maintains pneumatic loading of squeeze rolls — automatically**

From size box to dryer roll you can depend on Foxboro control to increase the efficiency of your Slasher operation.

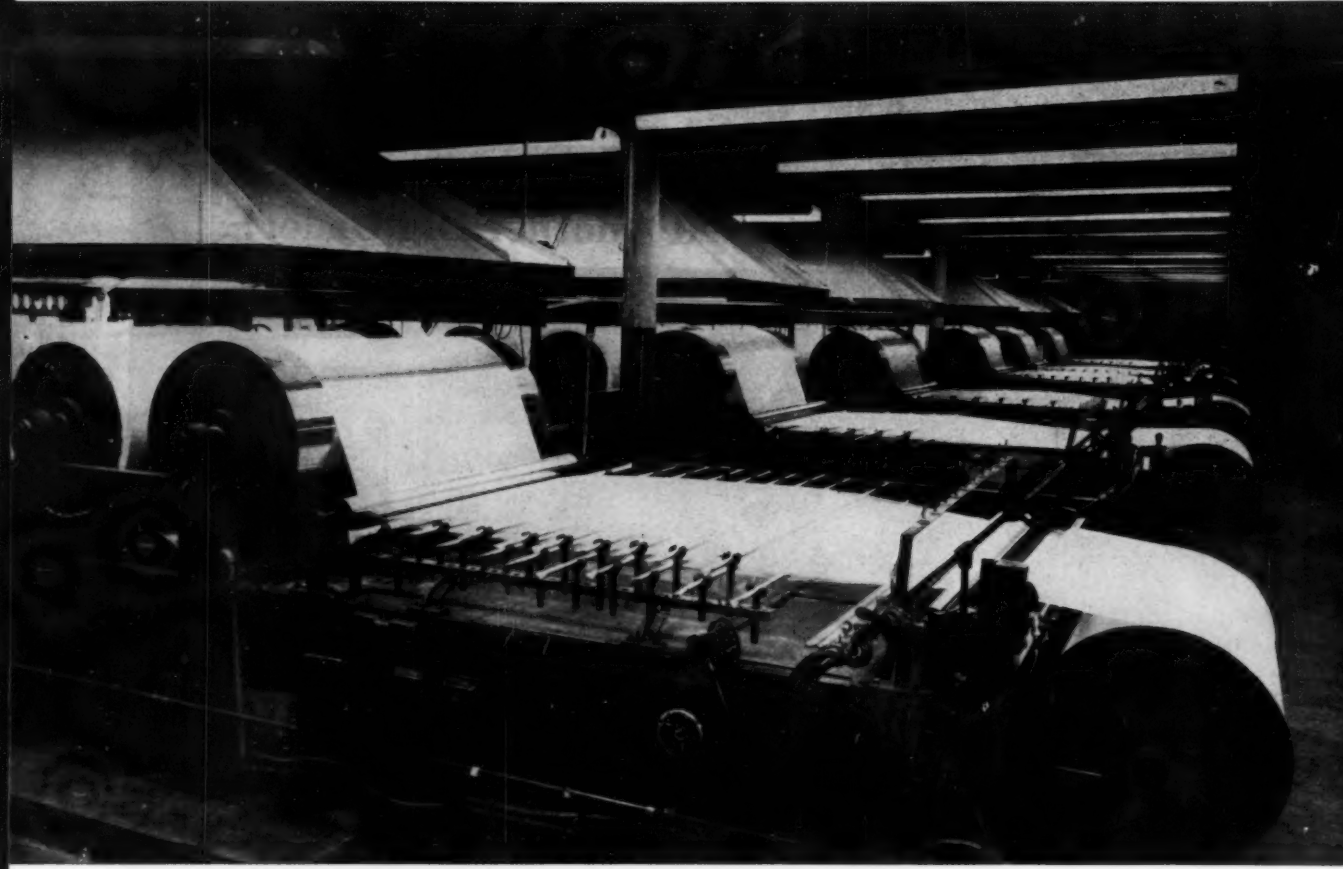
Take Foxboro's Dual-Purpose Size-Kettle Temperature Schedule Controller, for example. This exclusive instrument controls the temperature of BOTH size cooking and storage — with direct steam and jacket heating. Temperature shifts are automatic — no hazards of boil-over. And size dilution is completely eliminated — regardless of storage time.

Or take Foxboro Dryer Roll Temperature Control. This simple, on-off system developed by Foxboro eliminates compressed air purge in the removal of steam condensate . . . even as low as 140°F!

And for over-all Slasher Room efficiency, don't overlook size box level control, viscosity recording, and pneumatic squeeze roll loading. These, too, are Foxboro-engineered to improve yarn quality . . . automatically. Write today for full details. **The Foxboro Company, 4810 Neponset Ave., Foxboro, Mass., U.S.A.**

FOXBORO **SLASHER ROOM CONTROL**

REG. U.S. PAT. OFF.



This battery of Kidde-Johnson Slashers is in operation at a leading southern mill.

Versatile Kidde-Johnson Warp Sizer HANDLES ALL YARNS

The all-purpose, high speed Kidde-Johnson Slasher is versatile because . . .

. . . it will slash yarns of any fiber—filaments or spuns—from the finest count for delicate fabrics to the heaviest denier tire cord.

. . . its production capacity can be expanded to meet future needs . . . drying cylinders, single or combination quetsches can be added, head ends extended and/or widened.

. . . it is constructed to fit your requirements . . . for silk system slashing (single beam to loom beam), cotton system (from several section beams to loom beam) or both.

Here are some other outstanding features . . .

1. A smooth all electric drive in single or multi-motor arrangement.

2. Loom beam rigidly supported in ball bearings close to beam flange. Will easily accommodate various width loom beams.

3. Size level, size temperature, and cylinder temperatures are precisely controlled individually or in groups.

4. Application and impregnation of size by pneumatically loaded quetsch rolls is uniform throughout the run.

5. Fingertip calibration of stretch with a stretch indicator that gives continuous indication.

6. Stainless steel lead-in and idler rolls, solution pan, bottom quetsch roll, cylinders, and split rods.

7. "Teflon" coated cylinders to immunize against sticking. Also moisture content controls, viscometers, etc.

For full information on modernization of your present slashing equipment or on complete new slasher installations, call PILGRIM 8-8100 or write . . .

TRICOT AND RASCHEL MACHINES • TRICOT WARPERS • HORIZONTAL WARPERS • BEAMERS
CREELS • SLASHERS • WINDER-REDRAWS • TENSOMETERS • TENSION COMPENSATORS

Kidde

TEXTILE MACHINERY CORPORATION — BLOOMFIELD, NEW JERSEY

The word KIDDE is the trademark of Walter Kidde & Company, Inc., and its affiliated companies.

Hello Bill! Just Landed Another Big Order!

What's his secret? It's simple! He sells more because his company gives him more to sell! Are you doing the same for your salesmen?

Enthusiastic salesmen usually have the best sales records. And there's no better way to keep enthusiasm high than to provide them with the extras they need to win out in today's tough sales competition.

Better product characteristics, new product applications; new items, new lines, competitive prices—these are the extras, the tools salesmen must have if they are to keep their sales curves rising.

Giving products that something extra is, and has always been, a major objective at Staley's. Here, comprehensive textile research, unmatched technical know-how and a complete line of highest quality tailor-made starches, gums and dextrins are all geared to but one goal—quality improvement of your products.

Whether in sizing or finishing . . . on cottons, worsteds . . . or synthetic blends . . . whether in providing a practical cost-saving solution to a present problem or creating product extras so salesmen have *more* to sell—Staley's stands ready to serve. Write or call the Staley's Technical Representative at the branch office nearest you for the proof.

Staley's®

World's Largest Processor of Corn and Soybeans

A. E. STALEY MFG. CO., DECATUR, ILL.

Branch Offices: Atlanta • Boston • Chicago • Cleveland • Kansas City
New York • Philadelphia • San Francisco • St. Louis

Second to none for light fastness!

CARBANTHRENE®
OLIVE GREEN B
DOUBLE PASTE

Here's an outstanding vat dye that is rated for maximum resistance to light . . . *even in pale shades and after resin finishing!*

It's unmatched for processing ease in pigment application, too! Uniform, microscopic particles give you finer dispersions and cleaner, brighter dyeings. Rejects, seconds and redyes due to dyestuff failures are minimized. Waste is reduced. And, because dye is utilized efficiently, formulations are more readily reproducible and dye yields frequently increased.

Request a sample if you have not as yet tried the "new" and improved CARBANTHRENES.

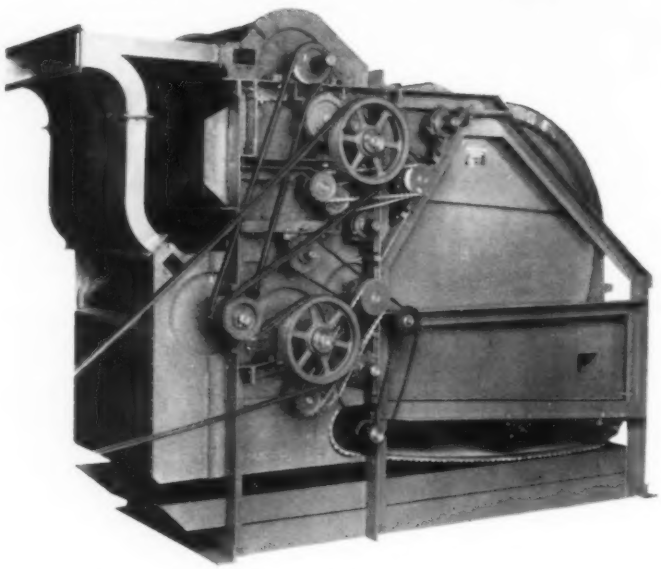
NATIONAL ANILINE DIVISION
40 RECTOR STREET, NEW YORK 6, N. Y.

Akron Atlanta Boston Charlotte Chattanooga Chicago Greensboro Los Angeles
New Orleans Philadelphia Portland, Ore. Providence San Francisco Toronto

Allied Chemical

We offer you—

The Greatest Thing In Cleaning!



—by combining the original SRRL Lint Cotton Opener and Blender with a Cleaning Unit—

For Cleaner Cotton and Less Fiber Loss

We now have machines of this type located in: Texas, Georia, South Carolina, North Carolina and Virginia for your inspection.

Contact us for complete details.

Carolina Machinery Co., Inc.

P. O. Box 1922 **Phone EX 9-1241**

Charlotte 1 **North Carolina**

Why this lug strap lasts longer...

insures smoother operation

Because of the great strength of Tex-Hide—a product of Gates *specialized* research—the block can be molded into the strap without the use of bolts or rivets. As a result, straps are streamlined and light in weight.

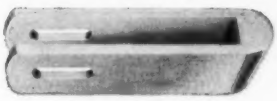
Yet, because of their superb resilience, they will give you longer service, and smoother operation, *than any other strap you have ever used.*

2 big advantages of Gates Tex-Hide Lug Straps

1. Tex-Hide Lug Straps combine great strength with unsurpassed resiliency. Therefore, they soak up blows and shocks *without taking any permanent stretch.*

2. The great resiliency also insures long life for *all parts* of the picking motion, and gives extended periods of operation *without any strap adjustments.*

Super Tex-Hide Lug Straps



Users report up to 5 times longer service on their heaviest looms from Super Tex-Hide than from any other strap.

New Thin-Tex Lug Straps

When extreme flexibility and much lighter weight are needed, Thin-Tex Lug Straps give up to 25% longer life than ordinary straps...and smooth out loom operation.

Gates Distributors are in the Yellow Pages

Gates

The Gates Rubber Company, Denver, Colorado

The Mark of *Specialized* Research

Other Products...

Take-up Roll Coverings
Card Bands
Cone and Evener Belts
Spinning Frame Drives

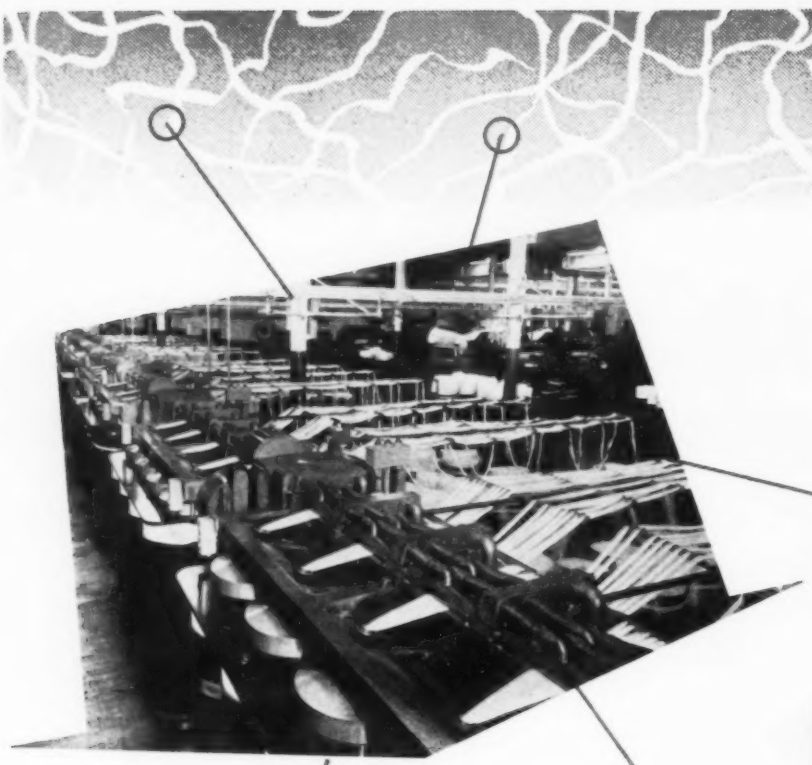
Tex-Hide Harness Straps

Tex-Hide and Vulco Loop Pickers

Reversible Pickers

TPA 325

Gates Lug Straps



Looking for Brand New Drawing? Ideal has it!

The New Drawing Frame is a brand new frame with valuable exclusive features. We think it is the best on the market. All we ask is the opportunity to discuss it and demonstrate it to you before you purchase any new drawing.

HIGH SPEED 400 feet a minute is the normal sustained operating speed of this new frame under actual mill operating conditions. Every part of this machine is built for safe, smooth, and continuous operation at this speed.

HIGH QUALITY SLIVER Ideal equipment has met the highest standards of strength and uniformity. Exclusive compensating rolls automatically even out thick and thin places in the sliver. Ideal's exclusive Vacuum System* eliminates slubs and gently sucks out dirt, trash and non-spinnable fibers.

LOW OPERATING COSTS The New Ideal Drawing Frame runs smoothly and quietly at high speeds with a minimum of adjustments and reconditioning. Every part is easily visible and accessible. Compact construction saves floor space. And the initial cost is right. The principles embodied in this frame have been proven on millions of pounds of sliver. Let's discuss this complete New Ideal Drawing Frame at your earliest convenience.

See it at Booths 239-240 Southern Textile Exposition.

*Patent Applied for

Ideal Industries, Inc.
Bessemer City, N. C.

...One Quality—U. S. P. ANHYDROUS

SOLVAY SODIUM NITRITE

SOLVAY now offers a choice of three forms of anhydrous Sodium Nitrite, identical in quality—U.S.P.—but designed to meet different industrial requirements.

1. New Flake Form—This *exclusive* SOLVAY time-and-labor saver—available at no extra cost—meets the need for a free-flowing product that stores without caking, yet dissolves readily.

2. Regular Granular Form—Fast dissolving, crystalline material for a wide range of applications.

3. 45-S Granular Form—Similar to regular granular form, but preferable when greater resistance to caking in storage is desired.

All three forms of SOLVAY Sodium Nitrite are available in 400-lb. and 100-lb. fiber or steel drums and 100-lb. bags.

Write for the sample that suits your needs!

Sodium Nitrite • Caustic Soda • Calcium Chloride
Chlorine • Caustic Potash • Potassium Carbonate
Sodium Bicarbonate • Chloroform • Methyl Chloride
Ammonium Chloride • Ammonium Bicarbonate • Vinyl Chloride • Methylene Chloride • Cleaning Compounds
Hydrogen Peroxide • Aluminum Chloride • Snowflake® Crystals • Monochlorobenzene • Ortho-dichlorobenzene
Carbon Tetrachloride • Para-dichlorobenzene • Soda Ash
Mutual Chromium Chemicals

SOLVAY branch offices and dealers are located in major centers from coast to coast.

SOLVAY®

Allied Chemical

SOLVAY PROCESS DIVISION

61 Broadway, New York 6, N. Y. EN-10

Please send without obligation sample or samples as follows:

- ☐ SOLVAY *flake* Sodium Nitrite
- ☐ SOLVAY *regular granular* Sodium Nitrite
- ☐ SOLVAY *45-S granular* Sodium Nitrite
- ☐ Include prices and name of nearest dealer

Name_____

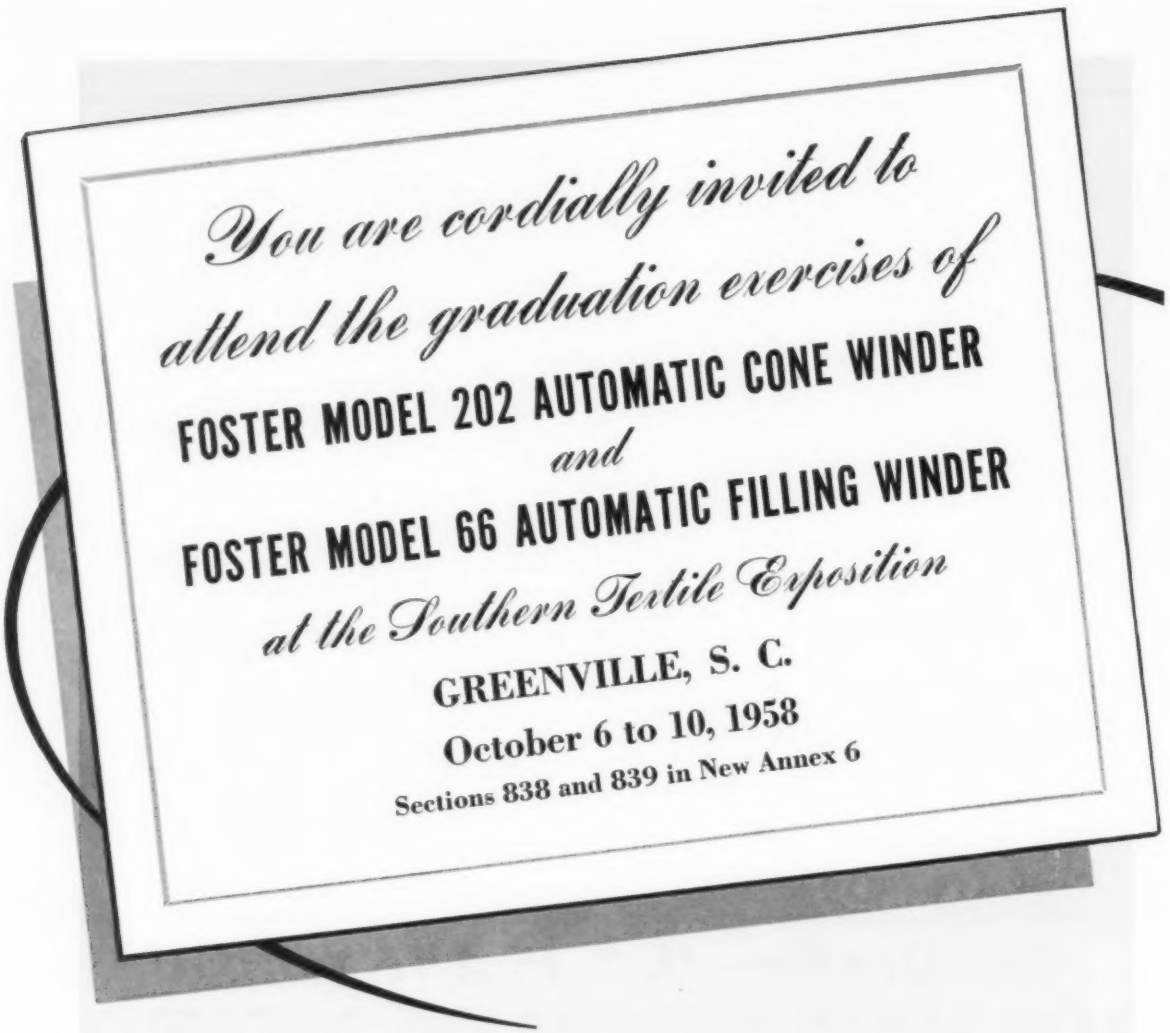
Position_____

Company_____

Phone_____

Address_____

City_____ Zone____ State_____


You are cordially invited to
attend the graduation exercises of
FOSTER MODEL 202 AUTOMATIC CONE WINDER
and
FOSTER MODEL 66 AUTOMATIC FILLING WINDER
at the Southern Textile Exposition
GREENVILLE, S. C.
October 6 to 10, 1958
Sections 838 and 839 in New Annex 6

After many months of operation under actual mill conditions, from the most favorable to the most unfavorable, these two installations (in two different mills) have demonstrated their efficiency. Low winding cost has been matched by low maintenance cost and quality winding in both instances.

The Foster Model 202 and the Foster Model 66 will be shown in operation at the Southern Textile Exposition. Production figures and operating cost figures on both will be available at that time.

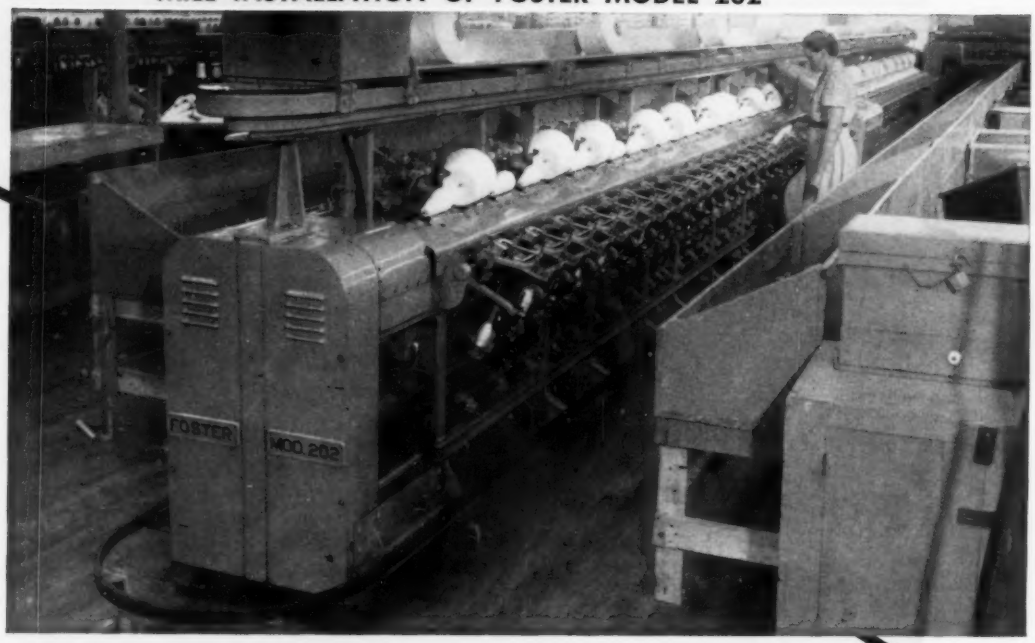
Come and see these two machines get their diplomas. They've earned them.

FOSTER MACHINE COMPANY

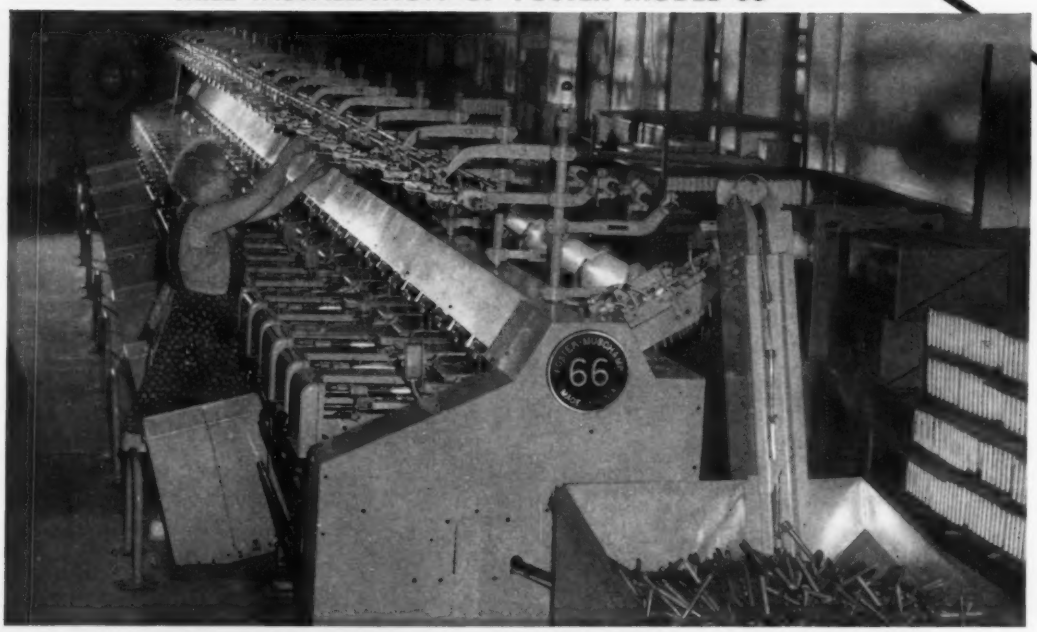
A Yarn Winder for Every Purpose

357-8

MILL INSTALLATION OF FOSTER MODEL 202



MILL INSTALLATION OF FOSTER MODEL 66



Westfield, Massachusetts, U.S.A.

Southern Office — Johnston Bldg., Charlotte, N. C. • *Canadian Representative* — Ross Whitehead & Co. Ltd., 1475 Mountain St., Montreal, Que. and 100 Dixie Plaza, Port Credit, Ontario • *European Representative* — Muschamp Textile Machinery Ltd., Keb Lane Bardsley, Oldham, England.

pour yourself an extra measure
of cleaning power
for every detergent dollar you spend!

Nacconol® SL

LARGEST SELLING LIQUID DETERGENT FOR TEXTILES!

Why? Because cost-conscious buyers know it gives them better money-value than most dry products . . . *more cleaning power per dollar* . . . on an active ingredient basis!

And, being a liquid, NACCONOL SL saves production time and costs, too. It's clean, easy to handle and requires no dissolving.

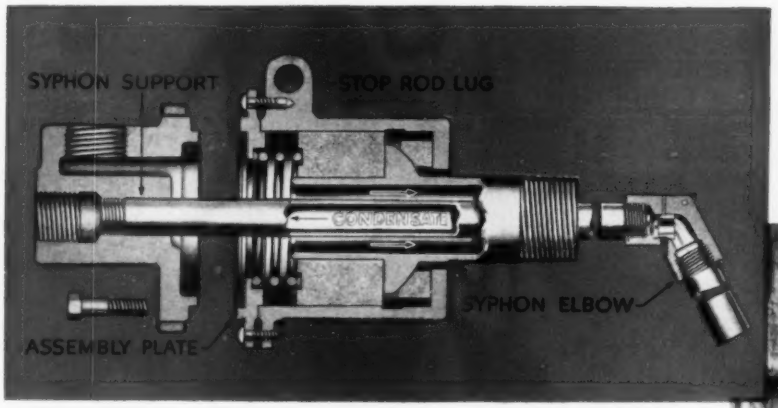
If this kind of two-way economy appeals to you, write for free sample and price quotation today.

Other forms of NACCONOL for wet processing include NACCONOL NR Flake, and uniform, non-dusting granules NACCONOL DB and NACCONOL DBX. All are minimum 40% active organic products.

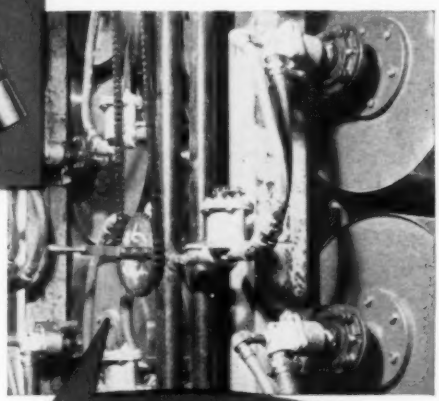
Allied Chemical

NATIONAL ANILINE DIVISION ALLIED CHEMICAL CORPORATION • 40 RECTOR STREET, NEW YORK 6, N. Y.

Akron Atlanta Boston Charlotte Chattanooga Chicago Greensboro Los Angeles New Orleans Philadelphia Portland, Ore. Providence San Francisco Toronto



TYPE S-B2P Johnson Joint with Syphon Elbow. This is a completely self-supporting unit; the lug shown on body is for simple stop rod to keep joints from turning. Installation view shows these joints installed on dry cans.



These are the ones to use... { For 23" dia. Dry Cans and 30" dia. Slasher Cylinders

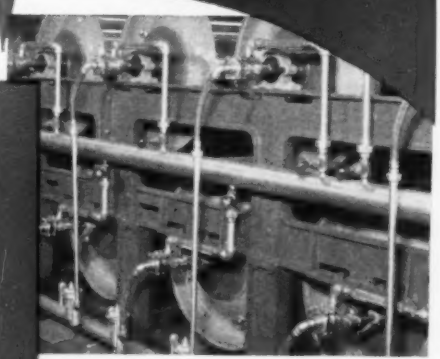
JOHNSON *Rotary Pressure* JOINTS with JOHNSON SYPHON ELBOWS

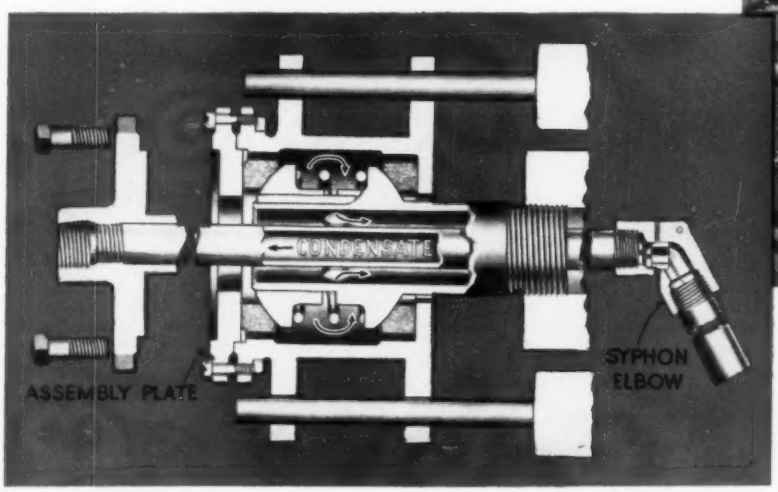
These two types of Johnson Joints have proved particularly suited for service on the newer 23" diameter Dry Cans and 30" diameter Slasher Cylinders. The Type S is completely self-supporting; the Type LJ is rod-supported from bosses provided by machinery manufacturers. Both types are completely packless, need no lubrication or adjustment.

Pictured with each joint is the Johnson Syphon Elbow, successor to the unwieldy curved syphon pipe. It hinges to pass right through the joint, seats of its own weight when in position, permits the use of two simple straight pipes for the syphon line. Special assembly plate is provided on joints so the head and syphon pipe can be removed without disassembling the joint.

Here's our offer—We will gladly furnish a pair of Johnson Joints for 90-day trial in your own mill, without cost or obligation to you. There are Johnson Joints for all operating conditions.

Write for full information





TYPE L-JSP Johnson Joint with Syphon Elbow. Has lugs on body for support rods, which carry all weight of body and connections, permit rotating assembly to "float" freely inside. Steam inlet is in side of body as shown in installation view of joints on slasher cylinders.

THE JOHNSON CORPORATION

815 Wood Street, Three Rivers, Michigan

Rotary Pressure Joints • Direct Operated Solenoid Valves

Announcing the New Dayton

Golden Thorobred Drop Box Picker

Amazing Synthetic Picker Lasts Up to 10 Times Longer, Multiplies Loom Savings!

You can now enjoy tremendous savings in loom downtime and picker replacement cost, with *new* Dayton-made Golden Thorobred Drop Box Pickers. During long, thorough testing, Golden Thorobred Drop Box Pickers have operated up to 10 times longer than conventional pickers, and in many cases are still running.

Furthermore, Golden Thorobreds require no oils or dressing . . . they won't abrade the picker stick, thereby extending its life . . . and they have an almost perfect cushioning action that preserves the shuttle from wear.

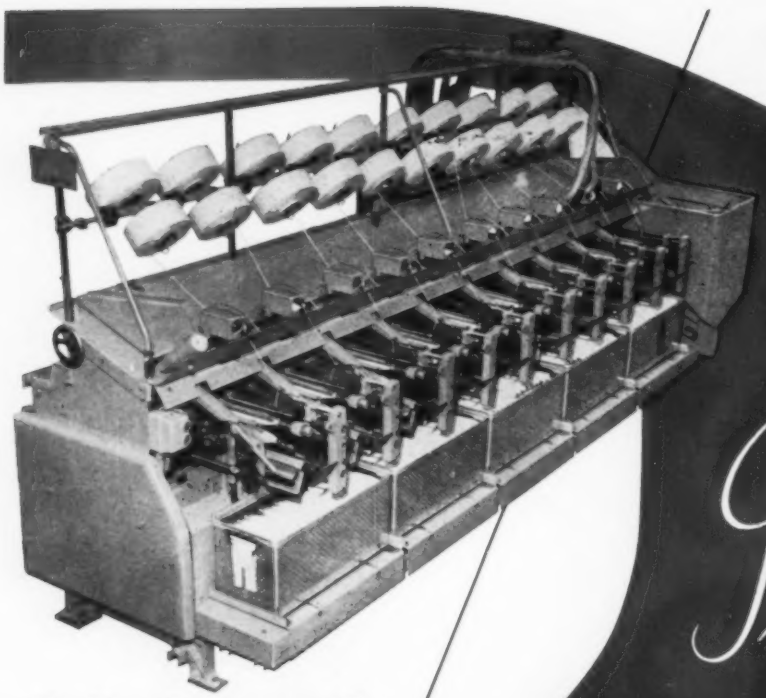
Because of their shock-absorbing resilience, Golden Thorobreds, too, help greatly to diminish the noise level on looms. And when a changeover does become necessary, Golden Thorobreds box with notable ease . . . for your further savings in labor and downtime.

Cleaner, cooler, quieter, longer running . . . Dayton Golden Thorobred Drop Box Pickers assure you outstanding performance and remarkable savings. Enjoy these new, high standards of wear-resistant operation . . . the result of six years of Dayton research and testing in synthetic elastomers. Golden Thorobreds are now available at your local Dayton jobber's . . . or write The Dayton Rubber Company, Textile Division, 401 South Carolina National Bank Building, Greenville, S. C.

Dayton Rubber

Dayco and Thorobred Textile Products for Better Spinning and Weaving

OVERSEAS PLANT, THE DAYTON RUBBER CO. LTD., DUNDEE, SCOTLAND



The High Speed Scharer QUILLER

Fully Automatic . . . but simple to operate and maintain

Speeds up to 11,000 R.P.M.
Simplicity of design assures lowest maintenance cost
Patented no-tailing device completely eliminates tails on full bobbins
Produces uniform bobbins with more yarn per package
Special tension control prevents yarn sluffing off
Full bobbins laid uniformly into boxes and ready for use at looms
Operators can handle more spindles and wind more yarn than on any other modern high speed quiller
Exclusive combination blower and vacuum keeps machine and yarn cleaner
Only one motor used to operate entire machine and blower
Automatic loading hopper, handles quills without damage
Ample stocks of replacement parts carried in our Spartanburg Warehouse

Manufactured By: Scharer Textile Machine Works, Erlenbach/Zurich, Switzerland

"Winding Machines Since 1880"

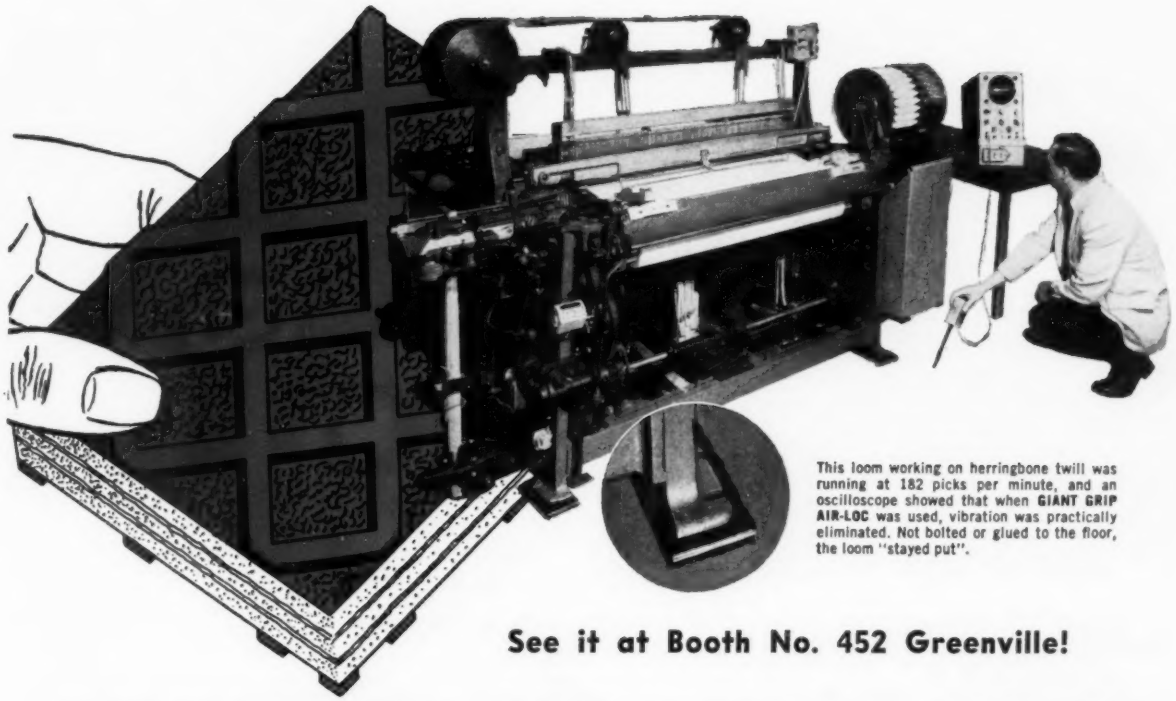
Sold and Serviced in the United States by:

Yeomans Textile Machinery Company

On Display in Annex No. 8, Southern Textile Exposition

P. O. Box 1661, Spartanburg, S. C.

Sole Scharer Agents in Canada: Hugh Williams & Co., 27 Wellington St. E., Toronto 1, Ont.



This loom working on herringbone twill was running at 182 picks per minute, and an oscilloscope showed that when **GIANT GRIP AIR-LOC** was used, vibration was practically eliminated. Not bolted or glued to the floor, the loom "stayed put".

See it at Booth No. 452 Greenville!

DEVELOPED FOR LOOMS ONLY

GIANT GRIP

(patent applied for)

Air-Loc ® 4·17·1

is the only loom mount that gives you *all* of these advantages:

1. *Saves you money* on installation because you use no bolts, glue or cement.

2. Special *grip surface* HOLDS looms in place, on any type of floor.

3. *Can be reused* when looms are moved, because its vinyl-cork construction is more resilient than any known mounting on the market today.

4. *Completely resists* oil, ozone and detergents.

5. Turns *vertical* loom movement into *horizontal* movement and practically eliminates the vibration that can cause downtime.

6. *Self-leveling* . . . insures permanent loom alignment.

For a sample of GIANT GRIP AIR-LOC call:

Southern Representative:
YEOMANS TEXTILE MACHINERY CO.
Spartanburg, S. C.

Northern Representative:
AMERICAN SUPPLY CO.
Central Falls, R. I.

or write to the manufacturer:

CLARK, CUTLER, McDERMOTT CO.

106 WEST CENTRAL STREET, FRANKLIN, MASSACHUSETTS

"Dyed ½ million yards this week...with no rejects!"*

**From a report to a Becco Technical Representative*

Becco Silicate-Free methods for continuous Hydrogen Peroxide bleaching have again converted a mill manager's headache to a head start on his competitors. When complex silicates of calcium and magnesium formed scale on equipment and left hard-to-remove residues in the cloth, Becco's recommendation for Silicate-Free Hydrogen Peroxide bleaching solutions resulted in elimination of dye house troubles.

The patented Becco Silicate-Free processes**, readily available to the textile industry, not only eliminate dyeing problems, but also—when silicate scale is the offender—minimize seconds and rejects and reduce down-time for equipment cleaning.

This doesn't mean that Silicate-Free bleaching is the answer to every textile problem. But, if you're having troubles due to silicate scale and insoluble residues, Becco Silicate-Free procedures can help you. These methods, created in the laboratory and proved in the mill, are another example of Becco's practical experience in service to the industry.

Fact is, Becco can help you with most of your textile problems, as we've been doing for years, and there's never any obligation. Just drop us a line, at the address below. Also, you might like to have a free copy of Becco's Bulletin No. 71, "Continuous Bleaching of Cottons with Silicate-Free Peroxide Solutions"; ask for it at the same time.

**—U.S. Patents 2,740,689 and 2,820,690

Progress in Peroxygens

®BECCO

BECCO CHEMICAL DIVISION

Food Machinery and Chemical Corporation
Station B, Buffalo 7, New York

fmc FOOD MACHINERY AND CHEMICAL CORPORATION ®

FMC CHEMICALS INCLUDE: **BECCO** Peroxygen Chemicals • **WESTVACO** Phosphates, Barium and Magnesium Chemicals • **WESTVACO** Alkalis, Chlorinated Chemicals and Carbon Bisulfide • **NIAGARA** Insecticides, Fungicides and Industrial Sulphur • **OHIO-APEX** Plasticizers and Chemicals • **FAIRFIELD** Pesticide Compounds and Organic Chemicals

Penford Gums THE **MODERN** WARP SIZING FOR **MODERN** WEAVING

Penford Gums provide exceptional warp yarn protection in weaving all modern fabrics — Cotton, Worsted, Viscose, Acetate, Nylon, Dacron, Acrilan, Orlon, Dynel, Zefran and blends.

There is a Penford Gum that will fit your warp sizing requirements. Penick & Ford Technical Sales Service Engineers will gladly assist you by recommending exact formulations and will provide continuous technical service. Write us today.

Picture of a mill man making equipment changes to run

COTRON

Believe it or not, this is just about all you have to do to change over to Cotron fabrics, blends of cotton and Avisco® rayon. Blending can be handled on your present equipment with only minor adjustments. In fact, for most fabrics, blending with Avisco rayon can be easily accomplished at the draw frame.

For the new booklet, "Cotron Technical Bulletin", which gives complete information on manufacturing Cotron fabrics, write to our Staple Sales Division.

AMERICAN VISCOSE CORPORATION
350 Fifth Avenue, New York 1, New York

* a fabric of cotton and AVISCO® rayon

*Trademark of American Viscose Corporation for fabrics of cotton and Avisco® rayon.

PROGRESSIVE DRAFTING SYSTEM

(PATENTS PENDING)

ENTIRELY NEW **IN ENGINEERING CONCEPT, IN DESIGN, AND IN STANDARDS OF PERFORMANCE**

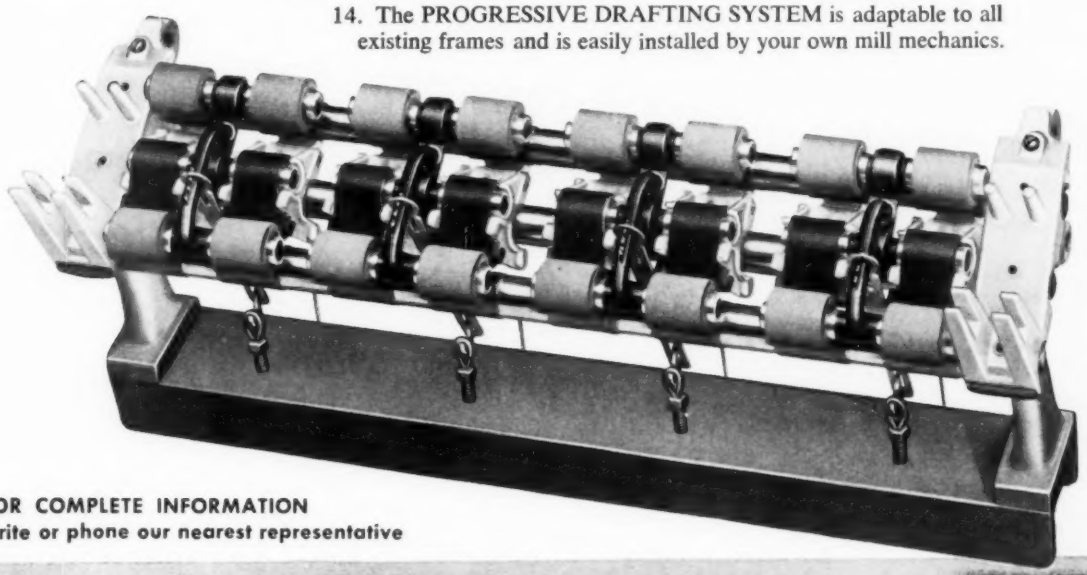
Completely Anti-Friction

NOW, a new, revolutionary, PROGRESSIVE Drafting System, for cleaner, stronger, more uniform yarn than ever before possible. It is the *only* system completely anti-friction. And PROGRESSIVE'S molded NY·PRO·LON CRADLE is the remarkable HEART of the System.

AT THE GREENVILLE SHOW BOOTH 128

CONSIDER:

1. No adjustments are ever required, not even after buffing of front top roll.
2. No wear from cradle on bottom rolls or on gudgeons of knurled top rolls.
3. Eliminates all cap bars.
4. No soiled aprons or soiled yarn.
5. Positive alignments, positive settings of aprons and of top rolls are a constant, with absolute uniformity at all times.
6. Three PROGRESSIVE ball-bearing, anti-friction rolls.
7. PROGRESSIVE-engineered suspension arm, an integral part of the front top roll.
8. Choice of three positive weight settings.
9. Front roll can be heavily weighted with no damage to its 8 ball bearings.
10. Constantly uniform pressure on middle and back rolls.
11. Ease of quick dismounting and reassembling of rolls.
12. Considerable savings in costs of both cots and aprons.
13. The ultimate of simplicity in design and a marvel of precision.
14. The PROGRESSIVE DRAFTING SYSTEM is adaptable to all existing frames and is easily installed by your own mill mechanics.



FOR COMPLETE INFORMATION
write or phone our nearest representative

PROGRESSIVE Engineering, Inc.

241 West Water Street, Rockland, Mass., U. S. A.

Telephone ROCKLAND . . . TRiangle 7-2920

SALES REPRESENTATIVES IN TEXTILE CENTERS THROUGHOUT THE FREE WORLD

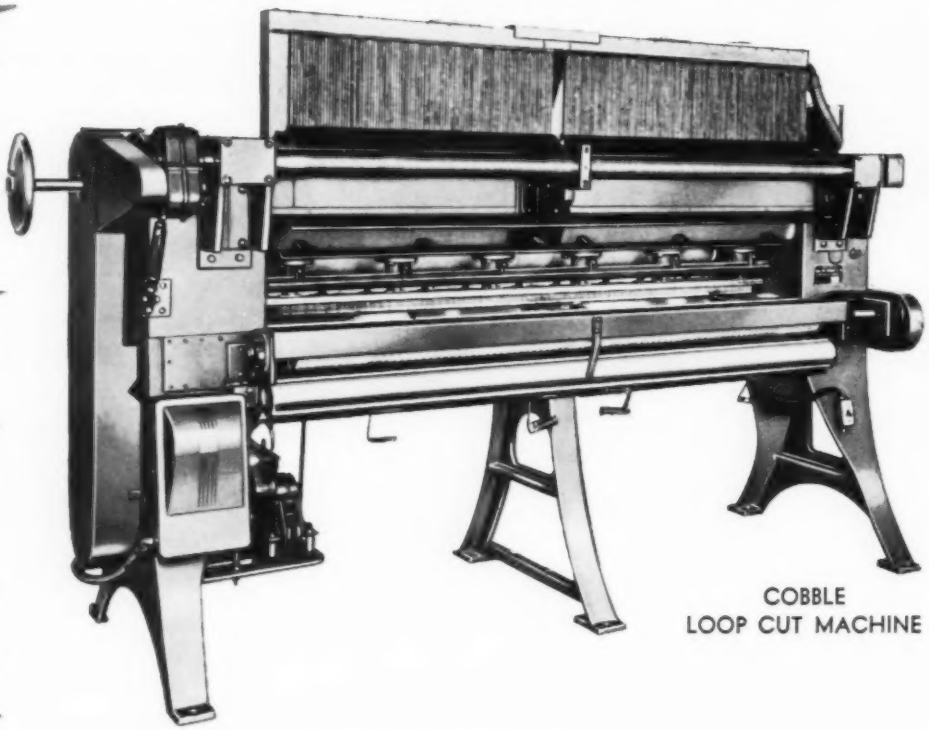
Representatives
WATSON & DESMOND
Charlotte, N. C.
AMERICAN SUPPLY CO.
Central Falls, R. I.
HUGH WILLIAMS & CO.
Toronto 1, Canada

COBBLE
TUFTING MACHINES

See the

COBBLE

TUFTING MACHINES DISPLAY



COBBLE
LOOP CUT MACHINE

STAND NO. 2102

International Textile Machinery
and Accessories Exhibition

Belle Vue, Manchester, England — Oct. 15th to 25th

CB

COBBLE BROS. MACHINERY CO.

RIVERSIDE DRIVE • PHONE OX 8-3481 • CHATTANOOGA, TENN., U.S.A.
GATE STREET WORKS • BLACKBURN, LANCASHIRE, ENGLAND

OVERSEAS AGENTS: ANDRE MANUEL, 82 Blvd. Haussmann, Paris 8, France - NOEL P. HUNT & CO., Pty. Ltd., 1-11 Hawke St., Melbourne C1, Australia

Textile Industries
for October 1958

News IN BRIEF

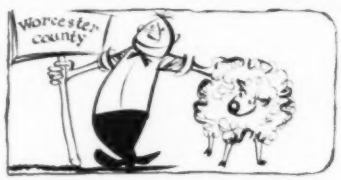
Japanese Catching British in Wool Cloth Exports. Japan is pushing hard to replace the United Kingdom as top supplier of woolen and worsted fabrics to the U. S. In the first quarter of this year, imports from Japan were 2,207,000 pounds, valued at $8,384,000; while

imports from Britain were 3,091-000 pounds, with a value of $12,-679,000. For the similar quarter of 1957, figures for Japan were 884,000 pounds and $3,240,000, and 2,846,000 pounds and $10,-275,000 for the United Kingdom.

Transshipments Nullifying Japan Quota? Transshipments of Japanese fabrics and garments through a second country have made the Japanese voluntary agreement useless, says Rep. W. J. B. Dorn (D., S. C.). He cited the arrival in New York of a shipment of more than 750,000 yards of fabric from South Africa. Since South Africa is an importer rather than an exporter of textiles, "Clearly, this shipment did not originate there," said Rep. Dorn. He has called on the U. S. Department of Commerce to report on what it is doing about such transshipments.

Canada Refuses to Postpone New Import Rules. The Textile Fabrics Association's plea for a postponement of the Canadian fabric import regulations was denied with "no reason given," according to TFA counsel Arthur M. Klurfeld. He stated that these new regulations, which require that fabric samples of each pattern be attached to invoices on goods shipped to Canada, will place "a tremendous burden on our industry." He also hit at Canadian government proposals designed to give added protection against dumping. A Dominion textile director in testimony which Mr. Klurfeld termed "shocking" stated that about 50 per cent of the best designs in his line are those copied from designs produced in the United States.

Top Wool County. Worcester County, Mass., where 4,800 persons are employed in 25 plants, is the nation's leading county in the production of woolen and worsted fabrics, according to a recent sur-



vey by *Sales Management* magazine. The top 20 counties in wool fabric production had 157 plants, or 45.8 per cent of the total, according to the magazine.

Senators Wrangle Over Textile Ills. Senator Paul Douglas blamed competition from synthetics, while Senator Robert Kerr argued that imports were more seriously damaging United States cotton and wool textile production and sales during hearings held by the Senate Finance Committee recently. At one point, Senator Douglas asked assembled textile executives and union officials, "How long is your industry going to be an infant? When is it going to get off the nursing bottle and walk on its own feet?" At another point, Senator Kerr charged that although domestic industries find it difficult to get government aid in tariff matters, any small factory in a far corner of the globe can get United States help.

Weeks Jubilant Over Trade Bill. Comments of Commerce Secretary Weeks on Congress' four-year extension of the Trade Agreements Act, "It is the best yet—something we can really do business with."

Textile Course Now Co-Op. Southern Technical Institute, Chamblee, Ga., now has the nation's first two-year cooperative program in textile technology. Starting with the current term, students will alternate between classroom and job, with six school quarters and five quarters in the mill.

Solvent - Soluble Pigments NID Nightmare. A rash of cotton dresses dyed with a solvent-soluble pigment is giving drycleaners a nightmare, according to the National Institute of Drycleaning. NID's trouble shooters had received about 600 such complaints for the year by August of 1957, but nearly

800 had come in by August of this year—the biggest number of complaints due to a single cause that the NID's analysis service has ever met.

August Cotton Crop Estimate. The 1958-59 cotton crop will total

News in Brief

12,105,000 bales of 500 pounds each, according to the U. S. Department of Agriculture's September estimate. The prediction is based on an expected all-time high per acre yield.

Communist Cotton Consumption Up. The Iron Curtain bloc of countries has increased its per capita cotton consumption to a level which places it ahead of Western Europe and below only that of the U. S. and Canada, reports the U. S. Department of Agriculture. Per capita consumption for 1956 in Eastern Europe and the USSR was 10 pounds, compared with 9.9 pounds in Western Europe, 15.8 pounds in Canada, and 25.9 pounds in the U. S.

Congress Defines Man-Made Fibers. Before it adjourned, Congress approved a bill defining rayon and other synthetic textile materials: Any fiber, filament, or fibrous structure, and any band or strip, suitable for the manufacture of textiles, not over one inch in width over-all, whether formed by extrusion or other processes, from substances derived by man from cellulosic or noncellulosic materials, by chemical processes such as, but not limited to, polymerization and condensation. Not included in the definition are glass and other nonmetallic minerals, metals, paper, and natural rubber.

Senator Hits Inducements to Establish Textile Mills in Indonesia. Senator Frederick G. Payne has written President Eisenhower protesting a Federal offer of loans to domestic textile mills to set up plants in Indonesia. Calling the offer an "open invitation for mills to shut down in this country and reopen in foreign countries," Senator Payne called for prompt modification of the Federal off-shore procurement policies used in the foreign aid program so that they will be reasonable and fair both to domestic and foreign textile industries. In the House debate, Representative W. J. Bryan Dorn noted that the next step in such an offer would be favored treatment to these domestically owned foreign mills so their textiles could be shipped into the U. S., possibly with lower import duties.

The new mid-Manhattan headquarters of Deering-Milliken & Co., Inc., at 39th St. and Avenue of the Americas. Front is of white marble, black granite, and clear and grey glass.

Foreign Textile Machinery at Manchester. Foreign machinery manufacturers who will take part in the International Textile Machinery Exhibition in Manchester, England, October 15-25, include exhibitors from the U. S. A., Belgium, Denmark, France, Germany, Netherlands, Italy, Sweden, and Switzerland. The exhibition will cover 140,000 sq ft of floor space.

New Elastomer Fiber. U. S. Rubber Co. is conducting market evaluation of "Vyrene," an experimental elastomer fiber, whose principal uses are expected to be in swimwear and foundation garments. Du Pont Co. recently announced a similar experimental fiber, currently called "Fiber K" [see TEXTILE INDUSTRIES for June 1958, p. 67].

Cut-Price Cotton Sales Figures. A total of 3,234,000 bales of cotton, which cost the Commodity Credit Corp. $681.4 million, have been sold abroad under PL 480 for foreign currencies since July 1954, President Eisenhower told Congress recently. They had an export value of $509.9 million. Says special White House assistant Clarence Francis, "Our surpluses will continue to be substantially above any normal or desirable carry-over for the next five years, even if PL 480 operations continue at the current rate [about 600,000 bales from January 1 to June 30, 1958] for that period."

Only 2 Official Whites for Warp Knitters. The Warp Knit Fabric Manufacturers Group of ACMI's man-made fibers and silk division recently issued a simplified version of the official White Color Card. Trade acceptance of Snow White and Star White has been so great that the organization found it was able to eliminate Cloud White, previously on its color card.

Estimated Use of Fibers in Nonwoven Textiles
Millions of Pounds Annual Rate

Use	Rayon	Acetate	Cotton	Other[1]	Total
Low-end industrial (padding, wiping, pressed felt, etc)	5.0	2.5	15.0	2.5	25.0
High-end industrial (towels, laminates, filters, coated fabrics, etc.)	7.5	2.5	12.5	2.5	25.0
Household (draperies, table covers, sanitary products, etc.)	12.0	3.0	4.0	1.0	20.0
Apparel (shoe fabrics, liners, ribbons, etc.)	4.5	1.5	1.0	3.0	10.0
TOTAL	29.0	9.5	32.5	9.0	80.0
PER CENT	36	12	41	11	100

[1]Principally nylon and Dacron, plus some wool
Source: Howard E. Shearer, through Textile Organon

News in Brief

More Machine-Harvested Cotton in '57. According to the United States Department of Agriculture, the amount of cotton harvested by machines during 1957 showed heavy gains over the previous year. In 1957, 32 per cent of the crop was mechanically harvested, compared with 27 per cent in 1956, and 23 per cent in 1955.

Fiber Use in Nonwovens. Howard E. Shearer of American Viscose Corp. has prepared estimates of the current annual usage of fibers in nonwoven fabrics; his data (which are not necessarily endorsed by Avisco) are reproduced in an accompanying table. The cotton poundages in the low-end industrial uses are principally soft and hard waste, including threads; the use of cotton in heavy waddings is not included. Nor are the substantial poundages of textile glass fiber used for reinforcing plastics considered, whether or not first prepared as a nonwoven textile.

USDA Ups Standards Prices. The U. S. Department of Agriculture has announced increases in prices for practical forms (boxes) of cotton standards. Twelve-sample official boxes of grade standards for American upland and Sea Island are now $12.00 each for domestic shipment, fob Washington, and six-sample official boxes of American Egyptian are also $12.00. Six-sample guide boxes of American upland are $7.00. Six-

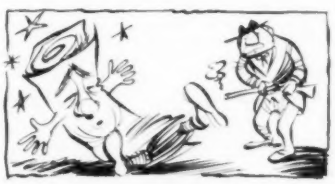
Labor-Management News

New Union Pacts. Albany Felt Co., Albany, N. Y., has signed a two-year agreement with United Textile Workers of America; 750 production workers are covered. A 2-cent-an-hour wage increase was included, with provision for reopening wage discussions next July. * * * Textile Workers Union of America has been elected to represent workers at the LeMoyne, Ala., plant of Courtaulds (Alabama) Inc. Vote was 292-220. * * * TWUA also won an organizing victory at Slater Dye Works, Pawtucket, R. I.

Legal Developments. New York Court of Appeals upheld state injunction against recognition picketing by one union where another had been certified as bargaining

agent, on theory that where there is a question as to whether federal law has excluded state jurisdiction in labor matters, doubt should be resolved in favor of state jurisdiction. * * * U. S. Court of Appeals for the 7th Circuit has ruled that AFL-CIO "nonraiding" agreements can be enforced by Federal courts. Ruling came after Textile Workers Union asked for certification at Personal Products Corp., Chicago, whose employees were already represented by United Textile Workers of America.

Labor Bill Killed. The controversial Kennedy-Ives labor bill was killed by the House in the



closing days of the 85th Congress, amid a welter of charges and countercharges as to who wanted it killed and why. Labor claims that the National Association of Manufacturers directed the death blow, because the bill would have required employers to report all transactions of over $5,000 in the labor field. Denying this, NAM says its opposition to the bill was fundamental: It was woefully inadequate, it weakened the Taft-Hartley Act, and its safeguards were illusory. National Chamber of Commerce opposed the bill because, among other reasons, it believed that it jeopardized the right of employers to communicate freely with employees.

Fringe Payments Up. Chamber of Commerce of the U. S. reports that fringe benefits (paid vacations and holidays, sick leave, pensions, insurance, etc.) averaged $981 per employee in 1957, an increase of $162 since 1955.

Where Is Thy Sting? Under the terms of a new union contract, employees of a Rhode Island tool

plant get three days off with pay to mourn the death of a mother-in-law or father-in-law.

EXTRA

mobility
time
profit

IN THE NEW 1958 Beechcraft SUPER 18

Write or phone for descriptive brochure
ATLANTA, GEORGIA—POplar 7-3766
Charlotte, N. C., Tel. FRanklin 6-7150
Birmingham, Ala., Tel. FAirfax 2-0502

Southern Airways Company

BEECHCRAFT — AIRFLEET OF THE TEXTILE INDUSTRY

sample boxes of tentative standards for preparation of long staple American upland are $7.00. All standards for length of staple (American upland, American Egyptian, and Sea Island) are now $2.50.

Germans Develop Polyurethane Yarn. A German firm, Ceolon AG, is reported to be producing a polyurethane foam yarn in commercial quantities. The yarn is bulky, and has high elongation (reportedly up to 140-180 per cent) and high thermal insulating value. It is currently available in yarns with square cross sections of 2 to 6 mm, and rectangular cross sections of 4 x 2 mm to 6 x 4 mm.

New USDA Wool Lab. Construction has begun on an 18,000-sq ft wool processing lab at the U. S. Department of Agriculture's Western Utilization Research Laboratory, Albany, Calif., to house pilot-scale equipment for processing raw wool into finished worsted fabrics. The plant is expected to be in operation in early 1959. Equipment for production of knitted and carded woolen goods is to be added later.

Standards for Stretch Socks. The Commodity Standards Division, U. S. Department of Commerce, is considering a proposed Commercial Standard to provide standard methods of measuring and minimum measurements for stretch socks and anklets, based on standards developed and issued by the National Association of Hosiery Manufacturers.

Hosiery Customers Defrauded. National Association of Hosiery Manufacturers has noted an "alarming increase" in the sale of substandard socks and stockings. Pointing out that the imperfections are not easily detected, even by experts, NAHM declares that an important source of these substandard products is hosiery sold by mills to waste dealers. Repairable socks are sorted from the waste and pawned off on the customer as first quality. The Association has asked its members to assist in enforcing state and Federal laws which prohibit such practices.

Denim Carnival. The city of Canton, Ga., home of Canton Cotton Mills, recently held a Denim Carnival Day in observance of National Denim Week. Sales booths erected on the downtown streets by local merchants, with those in attendance dressed in denim; contests; and a midway; were features of the event. The mill's exhibit featured a loom actually weaving denim.

Accident Book Available. The 1958 edition of "Accident Facts," the National Safety Council's 96-page statistical yearbook, is now available. Useful to mill safety

directors and others in making speeches, writing articles, preparing reports, and planning safety campaigns, it is available from the Council at 425 N. Michigan Ave., Chicago 11, Ill.

Wool Crease Process Available. The Australian "Si-Ro-Set" process for putting durable creases in men's wool trousers and durable pleats in women's wool skirts is now available to apparel manufacturers in this country. The process involves spraying the garment with a dilute solution of ammonnium thioglycollate before final pressing. Details are available from the Wool Bureau, 16 W. 46th St., New York 36, N. Y.

Public Relations Conference. The Dixie Public Relations Conference, with the theme "Profit Begins With PR," will meet on October 5-6 at the University of Georgia, Athens. Management and public relations officials from textile mills are invited to attend. Featured speaker will be J. Craig Smith, president of Avondale Mills, Sylacauga, Ala. Details from Center for Continuing Education at the University.

New Fluoro Fiber. Dow Corning Corp. has announced that it is conducting experimental work on a fluorosilicone fiber, "Silastic." The fiber is reported to be extruded in a diameter of 0.012". The company is said to be trying to interest manufacturers of foundation garments in working with the new fiber.

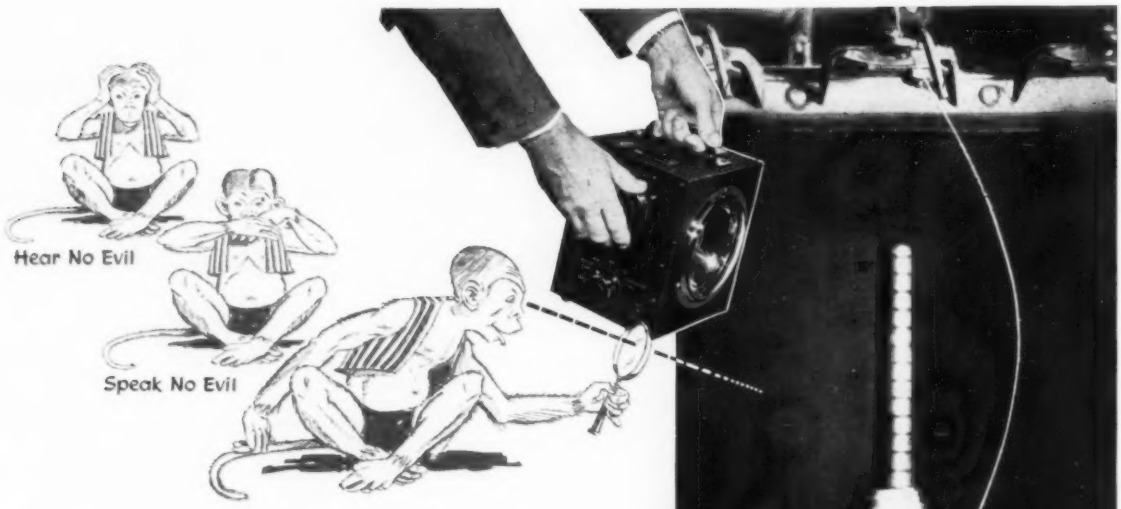
News in Brief

Tufted Patent Licenses Offered. Licenses for the production of high-low loop tufted pattern goods are being offered by Tufted Patterns, Inc., a Georgia corporation, under the five patent applications which it owns. Applications for licenses are said to have been mailed to all tufted textile manufacturers. Company officials say that a nominal royalty rate to be charged under its standard license agreement will enable the entire industry to take advantage of the inventions.

Civil Service Needs Textile Men. Prison industrial supervisors are needed by the Department of Justice, the U. S. Civil Service Commission has announced. The positions pay from $4,980 to $5,985 a year, and are located in various Federal penal and correctional in-

stitutions throughout the U. S. To qualify, applicants must have had basic and supervisory experience in textiles. Further information and application forms are available at many post offices or directly from the Commission at Washington 25, D. C.

Wool-Imitation Crackdown. Federal Trade Commission has announced its intention to crack down on promoters on nonwool fabrics who claim that their product possesses the properties of wool. Such phrases as "looks like wool," "feels like wool," and "wears like wool" will be banned, as will appropriation of descriptive terms for wool fabrics, such



See Plenty!

The Strobotac is a quick, economical means of preventing production evils. America's leading manufacturers have applied this instrument to the solution of hundreds of mechanical problems.

Typical uses include the measurement of speed under any driving or load condition, determination of torque vs. speed characteristics, and indication of critical speeds at which vibration or breakdown may occur.

In textiles, G-R stroboscopes have won acclaim as a means of cutting production costs and decreasing rejects. Unlike the ordinary tachometer, these instruments need no mechanical connection with the object under test. Speeds of spindles, cords, pickets, spinning frames, ring travelers, and rayon buckets can all be easily checked, and, if necessary, adjusted to operate correctly. Stroboscopic light allows the user to study production operations normally inaccessible by other methods. These and many other advantages help the manufacturer to achieve efficient operation.

In addition to the Strobotac, General Radio offers industry: the Strobolux, for use where an auxiliary source is needed for brighter light; and the Strobolume, a high-intensity light source for studies at looms and other low-speed machinery. These stroboscopic instruments are well worth their cost — they help prevent serious damage and costly shutdowns, and save you time, money, and headaches.

Type 631-BL
STROBOTAC : $170.00

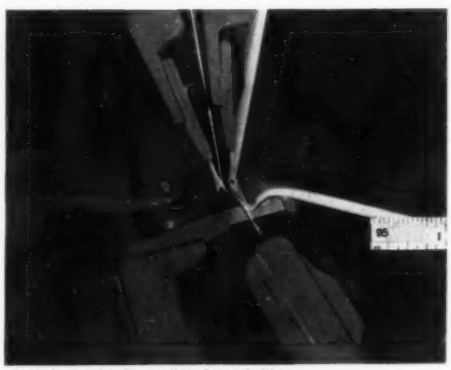
The best ally of preventive maintenance is the Strobotac. Slow motion studies allow the operator to spot and rectify any defects in manufacturing processes while the machine is still operating at its normal speed . . . a speed usually too fast for human visual observation.

631-BL Range: The 60-14,400 rpm range can be extended to 100,000 rpm by using multiples of the flashing speed.

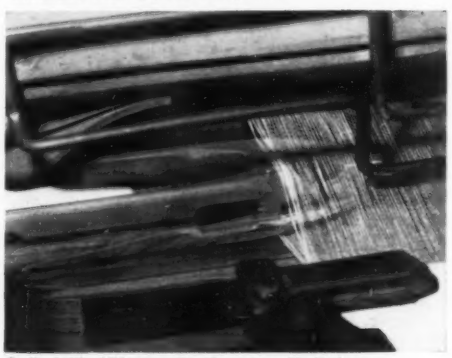
Accuracy: ±1% of dial reading over 900 rpm.

Power Supply: self contained, operates from 105-125 volts, 60 cycles.

Type 1532-B
STROBOLUME
$275



Strobolume "stops" operation of warp knitter.



Faulty shuttle striking warp threads, as seen with aid of Type 1532-B Strobolume.

STROBOTAC®

Manufactured Exclusively by

GENERAL RADIO Company 275 Massachusetts Avenue, Cambridge 39, Massachusetts

as "tweed," "worsted," and "wooly."

Body Sizing Standards Available. The Commodity Standards Division of the Commerce Department have announced the availability of the printed edition of the women's apparel sizing standards, Commercial Standard CS215-58, providing body measurements for the sizing of women's patterns and apparel.

Electrostatic Cotton Picking. A U. S. patent for a cotton picker based on electrostatic principles has been granted to Nicholas S. Hare of Monroeville, Ala., and Robin Beach of Brooklyn, N. Y. The picker uses electrified picking spindles, which are claimed to attract the cotton fibers but not the trash.

N. C. Hosiery Mills Safe. Of 217 mills entered in a statewide ho-

Merchandising Notes

American Cyanamid Co. has announced that use of the trademark for Creslan acrylic fiber will be permitted only on finished fabrics and end products which meet the company's standards; it will not be authorized for intermediate products such as fibers, roving, yarns, and grey goods.

American Viscose Corp. is heavily promoting Cotron rayon-cotton blend fabrics at the consumer level; trade advertising has been under way since July.

Cannon Mills, Inc., and **Pepperell Mfg. Co.** are now test marketing sheets made of Taslan textured nylon.

Dow Chemical Co. has received the Denim Council's second annual "Denim Advertising Citation" for

promotion connected with its new latex paint color, "Blue-Denim Blue."

Du Pont Co. reports that popular fabrics in the current Paris after-five fashions include moires, satins, warp-print taffetas, and tulles. In fabrics for daytime apparel, emphasis is on lightweight flannels, tweeds, and bold basket weaves.

Duraclean Co. is offering a booklet "Good Housekeeping Hints," which includes numerous tips on care of clothing and household textiles. For copies, write the company at Deerfield, Ill.

William G. Leininger Co. now uses this shipping-display box for its men's athletic socks. Strong enough for shipping, the box is converted for counter display after arrival.

Felters Co. is offering a line of nonwoven synthetic felt combinations in three basic styles, including felt coated with nylon, polyethylene, or Teflon. The fabrics are called "PlastiFelts."

Hodgman Rubber Co. is producing a camouflaged hunting parka made of a layer of rubber between two layers of fabric. The outside fabric is a light brown dyed sheeting, printed with the camouflage design.

House of Worsted-Tex, Inc., has introduced wool-dynel blend men's "self-pressing" suits in the Northern California market.

Modernage Hosiery Co. is test marketing canned nylon hosiery—the stockings are packaged in two-pair tin cans, for sale in supermarkets.

Manhattan Shirt Co. is offering a 100% cotton no-iron shirt for which it claims "cold-water washing and pushbutton de-wrinkling."

National Retail Merchants Association reports that three manufacturers of women's hosiery have recently agreed to two per cent rebates based on volume increases. **National Association of Hosiery Manufacturers,** bitter foe of such a rebate, calls it "simply a costly bookkeeping complication," since the rebate will inevitably be added to the price.

Sperry and Hutchinson Co., largest trading stamp company, claims that the trading stamp business is providing an annual market of $39 million for textile manufacturers, and that suppliers

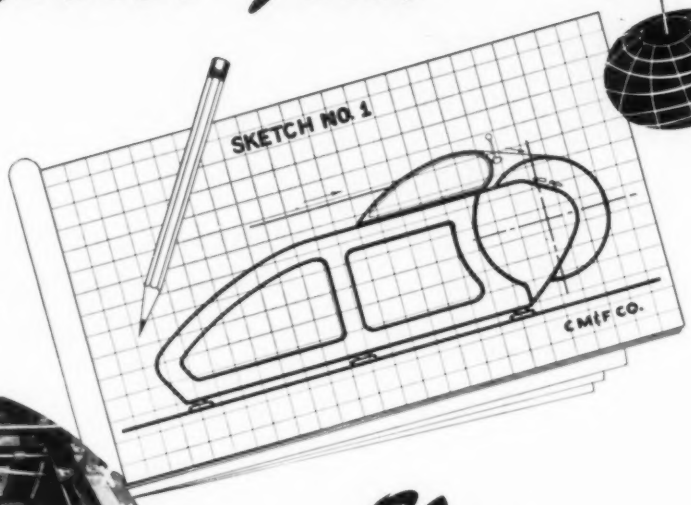
of yarns and fabrics are doing an additional $30 million business annually because of purchases by the trading stamp industry. All told, the trading stamp business is providing 6,776 jobs with an annual payroll of $17.9 million for the textile industry and its suppliers, says S & H.

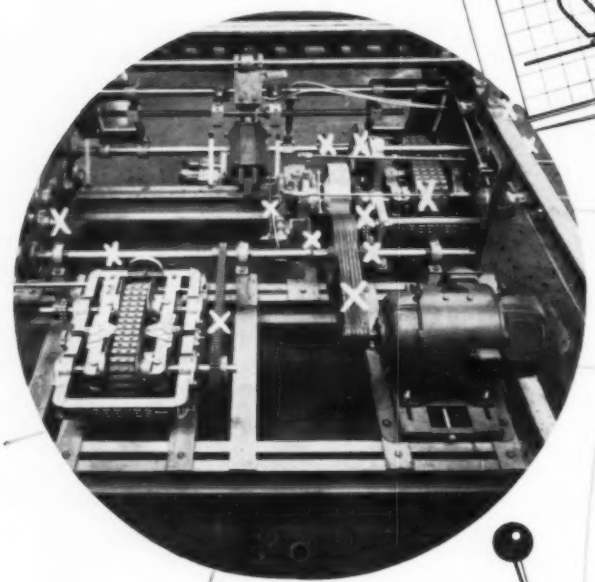
National Cotton Council has released a six-minute documentary film, "Blue Jeans," showing how cotton is manufactured into denim and blue jeans. Prints of the film are to be distributed initially to television stations, and offered later to schools and colleges.

Another Cocker First

Cocker was First with

- Multiple Cylinder Slasher for Cotton
- Finger Tip Stretch Control
- Mechanical Compensating Beam Drive





X THESE PARTS ARE ELIMINATED

GREENVILLE

Now

First with Slasher Torque Tube Drive

Lower Initial Cost
Less Maintenance
Highest Operating Speed
Fast Simple Doffing
Easy Adjustment for Beam Width
Self Locking Driving Head
Convenient Controls
Clean Modern Design

See this New Cocker Torque Tube Drive at Sections 836 and 837 Southern Textile Exposition

In Canada and New England:

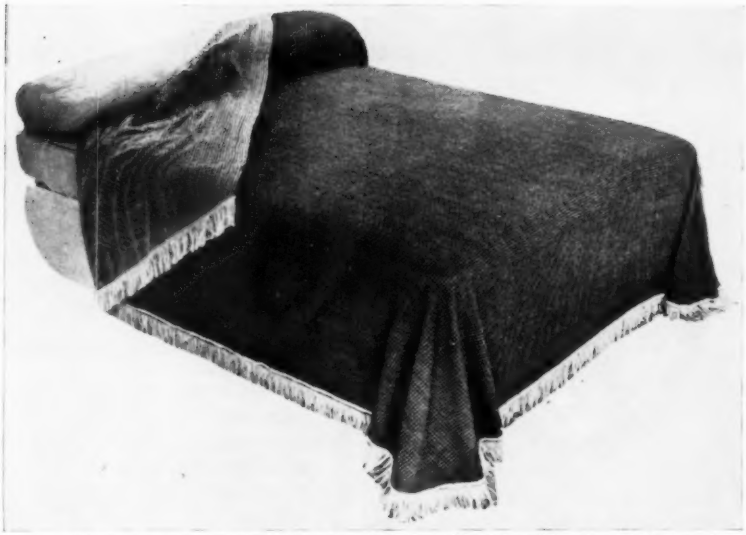
Contact W. S. Clark, Montreal, Canada
Melrose 1-3751

THE LEADER COCKER AROUND THE WORLD

Machine & Foundry Co., Gastonia, N. C.

Plant and Offices at Ranlo, N. C. (Mailing address, Gastonia, N. C.)

WORLD'S LARGEST DESIGNERS AND BUILDERS OF COMPLETE WARP PREPARATORY EQUIPMENT



A reversible bedspread called Duet has been introduced by Blue Ridge Spread Co., Dalton, Ga. Spread has a colored background, with matching tufts on one side, white on the other.

siery mill safety contest sponsored by the N. C. Industrial Commission, 112 came through without a disabling injury, for a total of 18,448,995 accident-free man-hours. However, accident frequency rate for all the hosiery mills was 4.07, compared with 3.53 for the year before; and severity rate increased to 60.0 from 34.9.

U. S. Represented at I.F.C.A.T.I. Meeting. A five-man delegation of U. S. mill men, headed by W. J. Erwin, president of Dan River Mills, represented the American Cotton Manufacturers Institute at

the Stockholm, Sweden, meeting of the International Federation of Cotton and Allied Textile Industries late in August. The Institute is not a member of the international organization, but is studying the advisability of affiliation.

Carpet Wool Stock Down. Carpet wool stocks in the U. S. on July 1 amounted to 30.3 million pounds, scoured basis, a decline of 2.6 million pounds from the April 1 level and 43 million pounds from the July 1, 1957, level. Of the latest total, carpet and carpet yarn manufacturers held 22.8 million and dealers 7.5 million pounds. Inventories of carpet-type man-made fiber staple were 4.5 million pounds, compared to 3.9 million pounds a year earlier.

Purchasing Workshop. The Purchasing Agents Association of Chicago, affiliated with the National Association of Purchasing Agents, will hold a two-day purchasing workshop on October 21-22 at Illinois Tech in Chicago. Purchasing problems will be the topics for discussion groups, rather than lecturers. Subjects include inventory control, value analysis, measuring purchasing performance, internal departmental relationships, vendor relations and sources, legal aspects of purchasing, purchasing procedure and organization, and data processing. For more information, contact the Purchasing Agents Association of Chicago, 134 N. LaSalle St., Chicago 2, Ill.

Chicopee Patents Held Invalid. As a result of a suit brought by Chicopee Manufacturing Corp. against Columbus (Ga.) Fiber Mills, certain patents held by Chicopee were declared invalid by the Middle Georgia U. S. District Court sitting in Columbus, Ga. The patents concern woven thermoplastic fabrics, commonly described as "3-D" constructions, widely used in the automotive trade. The Court's decision is considered highly significant in the trade because of litigations regarding the validity and possible infringement of other patents currently under consideration.

News in Brief

To Study Textile Readiness. The textile industry's ability to convert quickly to war work and to produce survival items on short notice will be studied by the Senate subcommittee which is currently investigating the industry. The staff director of the subcommittee, Dr. W. H. Miernyk of Northeastern University, recently made a two-day tour of the textile South.

Parachute Fabric Reports. Two reports of Air Force-sponsored research on parachute fabrics have been released. "Aerodynamic Heating of Parachutes," PB 131-597, and "Design Data on Biaxial Forces Developed in Parachute

Fabrics," PB 131658, are available from Office of Technical Services, U. S. Department of Commerce, Washington 25, D. C. Price: $1.75 and $2.25, respectively.

Price Support Levels for Cotton. According to the U. S. Department of Agriculture, the minimum level of price support for 1958-crop extra long staple cotton will average 53.95 cents per pound, net weight. This level reflects 65 per cent of the current parity price of 83 cents per pound. Recently enacted price support legislation provides that the level of support shall be not more than 75 per cent, nor less than 60 per cent of parity.

Cuba Asked to Impose Higher Tariff on Man-Made Fibers. Benjamin Martel, vice-president of

Booth

Originators of **SUPR-O-TAPE • SUPR-O-BAND • STRIP-O-MATIC • MICR-O-GRIND**

MANUFACTURERS OF QUALITY CARD CLOTHING SINCE 1892

REDUCE YOUR NEP COUNT! WITH MICR-O-GRIND*

CARD CLOTHING

*Pat. Pending

MILL TESTS SHOW:

Nep count reduced 40%

Blending improved substantially

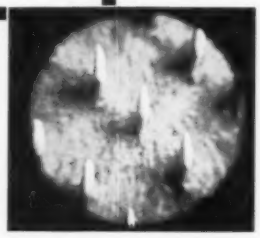
Yarn strength up 10%

Grinding 80% less frequent

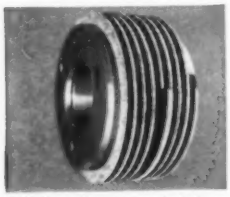
Grinding time less than 30 minutes (normal 6-8 hours)

Stripping 65% less frequent

Booth card clothing may now be obtained with a **new and exclusive** extra sharp needle point. With your first purchase of this new clothing, the MICR-O-GRIND head is available for rent so that you can regrind it yourself.



Note needle point from MICR-O-GRIND (left) compared with conventional flat point (right). Extra sharp MICR-O-GRIND points card out the neps and reduce the nep count as much as 40% on cotton. Sharper points also allow stock to release itself—hence less loading—and also give greatly improved carding action. Stripping of cotton cards only once a shift—on woolen cards as little as once a month.



Grinding discs are spiraled to take off the heel of each tooth. MICR-O-GRIND head fits your conventional grinding shaft.

HOW IT WORKS

MICR-O-GRIND card clothing is ground with spiral abrasive discs that take the heel off the wire. Accuracy of initial grind is assured by exclusive Booth electronic monitor controls. This leaves a needle-like point, long recognized as ideal for card clothing. *Never before has this ideal been attained.* Conventional grinding invariably leaves a flat point because no way was known to grind the teeth to a perfect point.

IMPROVED QUALITY

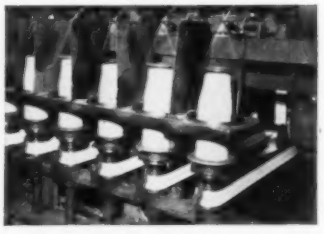
The needle point of the teeth holds the fibres long enough to be thoroughly carded and yet does not tear the fibres. This provides a more gentle combing action for increased yarn strength, better blending and reduces neps by as much as 40% in cotton carding.

Needle point is smooth enough to release the stock easily, yet the fine serrations (as seen under a microscope) will not let the fibres escape without being carded. This also means that there is less beating action at the doffer comb as the web flows more readily off the card.

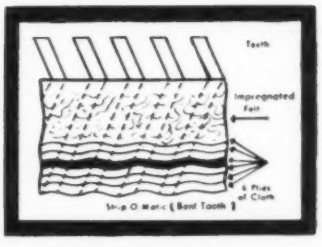
REDUCED COSTS

through reduced Down Time for grinding and stripping. MICR-O-GRIND clothing is very inexpensive—only 5% more. The MICR-O-GRIND needle point can be applied to any type of card clothing—the only difference is the point. In a cotton mill, you can get your standard 100's, 110's, etc., in either CCWC, CWC or rubberfaced foundation—also any woolen clothing.

SUPR-O-TAPE—the new proven condenser tape for longer life—improved roving—no stretch—no cracking—no need to oil—no dropped ends—holds square edges indefinitely.



SUPR-O-BAND—a new banding for spindle drives on twisting, roving and spinning frames for longer life—high friction surface—rough, rugged construction—positive drive—LINT FREE.



STRIP-O-MATIC—clothing greatly reduces stripping waste, down time and costs.

BENJAMIN BOOTH COMPANY

ALLEGHENY & JANNEY STS., PHILA. 34, PA.

SALES OFFICES: *West Point, Ga. • Charlotte, N.C. • Lowell, Mass.*

Booth

See Our New Equipment At The Greenville Show At Booth No. 468

Industrieas Consolidadas de Matanzas, SA, Cuban textile group, advanced a proposal at a public hearing in Havana, to double the present tariff on man-made fibers and yarns. He charged that United States dumping poses a serious threat to the Cuban textile industry. Arturo Martin de Nicolas, president of Textilera Mayabeque, agreed with Mr. Martel, but Manuel Ramos, president of the National Association of Fabric Manufacturers, said his group does not favor a tariff increase.

Chamois Leather Substitute Made of Cotton. A firm in Dornbirn, Austria, has developed a fabric for sports wear which closely resembles chamois leather and has similar qualities. The material consists of pure cotton with a nap finish (on one side only) which gives the fabric the typical appearance of chamois leather. By special chemical processing, the fabric becomes easily washable, crease resistant, and durable. It is supplied to the textile, apparel, and shoe industries.

Wool Cloth Tariff Up. Higher tariffs will be exacted on woolen and worsted fabrics coming into the United States for the rest of the year since the 14.2 million pound breakpoint quota for 1958 has been filled. Duty on most woven wool fabrics jumped from 25 to 45 per cent with the filling of the quota. At the same time, J. Douglas Hood, chairman of the National Wool Textile Export Corp., Bradford, England, stated that rising unemployment in the British woolen and worsted textile industry was a direct result of United States restriction on imports.

91 Per Cent of Japanese Workers Union Members. 129,045 operatives were employed in Japanese cotton mills in 1957, according to The Japan-U. S. Textile Information Service. The number was 929 higher than in 1956 and included 103,251 women and 25,794 men. About 25,000 were newly employed in 1957. Percentage of operatives belonging to labor unions was 91 per cent at the end of last year. Almost all are members of the Japan Federation of Textile Workers' Unions, an affiliate of the International Federation of Textile Workers' Associations.

Personal Freedom and Labor Policy. A pamphlet, published by the Institute of Economic Affairs of New York University, is entitled "Personal Freedom and Labor Policy." Prepared by Sylvester Petro, a professor of law at NYU, the pamphlet deals with the threat unionism poses to the personal freedom of the workingman. The pamphlets are available at twenty-five cents per single copy. Institute of Economic Affairs, 475 Fifth Avenue, New York 17, N. Y.

News in Brief

The tide *has* ebbed ~ are you ready for the turn?

THERE is a period after the tide has ebbed and before the turn brings another forward surge, when the waves all roll in nearly alike. Movement is at minimum.

So it is with Business.

Its tide has ebbed. Shortly it will flow in again. Already the first small bore is reported at scattered points.

Now, before business gathers momentum towards its flood, is the time to prepare to sail in with the tide.

Call in the Engineer now to sound your productive channels and remove the bars that there may be no waiting when demand will again be normal. Plant and machinery studies and reorganizations should not be delayed. Plans should be made for possible needed additions.

The tide has ebbed.

THIS AD IS JUST AS PERTINENT TODAY AS WHEN IT FIRST APPEARED A QUARTER CENTURY AGO—FOR NOW AS THEN THE TIDE HAS EBBED . . . ARE YOU READY FOR THE TURN?

J. E. SIRRINE COMPANY · **Greenville, South Carolina**

Engineers SINCE 1902

A DEPARTMENTALIZED ENGINEERING ORGANIZATION SERVING · BUSINESS · COMMERCE · INDUSTRY

Using Salt Efficiently

by INTERNATIONAL SALT COMPANY, INC.

Hydraulic Handling—Quick, Economical Way to Move Salt into Storage

Here's a new, effective method for moving salt from delivery cars or trucks into plant storage, without disrupting other operations. Hydraulic Handling systems, already in operation in several plants, have eliminated the expense of mechanical unloading equipment, and cut down considerably on man-hours needed to do the job.

What is Hydraulic Handling? Very simply, Hydraulic Handling is the movement of granular salt in circulating saturated brine, through pipes. Referring to the diagram, you will note that dry salt from the hopper car is mixed with saturated brine in a salt-receiving pit, to form a slurry of the saturated brine and undissolved salt. This slurry is pumped through a pipe to a salt-storage tank. Overflow brine from the tank continuously returns to the slurrying pit to carry more salt into storage.

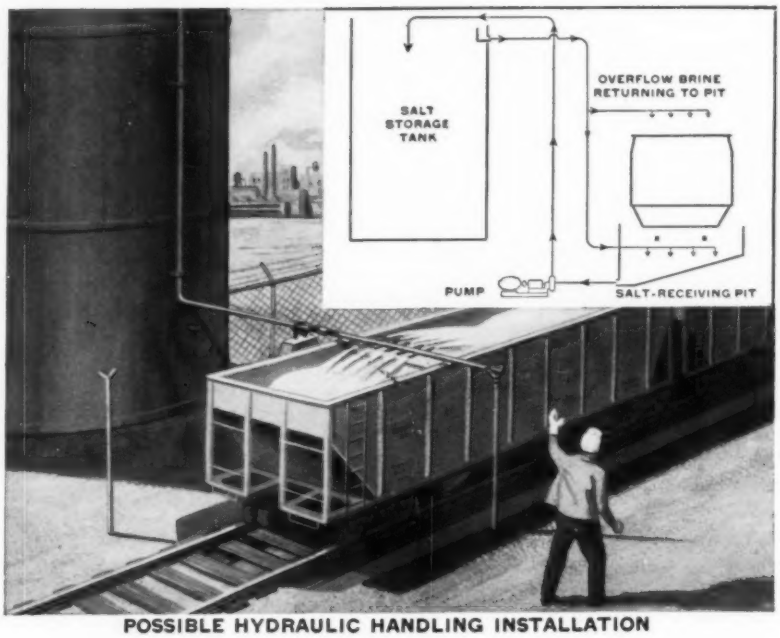
Advantages of Hydraulic Handling. Every Hydraulic Handling installation has a number of exclusive advantages:

1. **Great flexibility.** Because *pipes* do the work of carrying salt, a Hydraulic Handling system can be installed anywhere in the plant. Piping is flexible, and can be run where it won't interfere with other plant operating activities.

2. **No need to move existing equipment.** Machines that might obstruct mechanical handling equipment simply don't get in the way of a Hydraulic Handling installation.

3. **Long life, low maintenance.** You need no safety guards . . . no roofing to protect salt from weather . . . no belt conveyors, elevators or similar pieces of mechanical handling equipment. Also, there is never any salt dust that might corrode vital plant equipment. As a result, Hydraulic Handling installations have a long life, with very little maintenance expense.

4. **Unlimited capacity.** Hydraulic Handling systems can be designed to unload, move and store any amount and type of salt—rock or evaporated. Whatever your specific unloading needs, Hydraulic Handling can satisfy them.



POSSIBLE HYDRAULIC HANDLING INSTALLATION

For rock-salt users, Hydraulic Handling is especially economical when used with combined wet-storage and dissolving tanks or with International Salt Company's famous Sterling Wet-Storage Lixator. These units store Sterling Rock Salt the same way Hydraulic Handling moves it: combined with saturated brine. Thus the salt-and-brine slurry delivered through Hydraulic Handling to the Lixator *is already in the correct form.* The Lixator delivers 100%-saturated Lixate Brine through pipes to any point of use in the plant, and automatically makes more brine as needed.

From delivery to use, dry rock salt is never handled in plants equipped with both a Hydraulic Handling system and a Sterling Lixator.

You can get more information on how Hydraulic Handling can work in your plant to cut down salt-unloading and salt-handling expense from International Salt Company. One of our experienced Sales Engineers will be glad to work with you to determine the best system of Hydraulic Handling for your specific needs. He can also help you use salt efficiently in *all* your plant operations needing salt or brine.

Behind this qualified salt specialist are all the resources and experience of International Salt Company. We produce both Sterling Rock Salt and Sterling Evaporated Salt in all types and sizes . . . plus automatic equipment for making brine from both kinds of salt. So our sales engineer can recommend the type and size of salt most perfectly suited to your needs. He can also recommend the most efficient and inexpensive methods for storing, handling or using salt or brine. Ask him . . . send a card or letter to International Salt Company, Inc., Scranton 2, Pa. . . . or contact our nearest sales office.

INTERNATIONAL SALT CO., SCRANTON, PA.

Sales Offices: Atlanta, Ga.; Chicago, Ill.; New Orleans, La.; Baltimore, Md.; Boston, Mass.; Detroit, Mich.; St. Louis, Mo.; Newark, N. J.; Buffalo, N. Y.; New York, N. Y.; Cincinnati, O.; Cleveland, O.; Philadelphia, Pa.; Pittsburgh, Pa.; Memphis, Tenn; and Richmond, Va.

Service and Research are the Extras in **STERLING SALT**

PRODUCT OF INTERNATIONAL SALT COMPANY, INC.

AN EXECUTIVE Views

THE NEWS IN TEXTILES

Prepared by a man who is closely identified with the textile industry.

On this inflation

WHILE we are worrying about this recession, we must never forget that a recession is the natural and inevitable consequence of an inflation. An inflation causes an unnatural and totally unjustifiable increase in business activity and in the circulation of money.

The wage earner who has benefited by an inflation has no way of knowing that his sudden prosperity rests on a quicksand, and that it can't last. He proceeds on the assumption that it can last, and gets himself in debt accordingly. When a recession comes he is in a pitiable condition, and quite naturally clamors for help. That he has made absolutely no provision for helping himself does not disturb him. He feels that he should not be allowed to suffer the consequences of his folly as long as anybody has something the government can take away and give to him in his extremity.

He realizes that he lives under a socialist government although he may not have the slightest idea what socialism is. He does know that the government undertakes to bail him out when he gets in trouble, and to encourage him to abandon all thoughts of thrift and prudence and spend like a drunken sailor when he has something to spend, so as to "make business good."

AN INFLATION can come about in several ways, and it does not have to be government fostered. We have had some notable inflations with no help whatever from the government. One of these occurred during the great railroad building era, when savings all over the country were being taken out of their hiding places and poured into the building of various streaks of rust that promoters glowingly promised would make fortunes for investors. Right now, with no help from the government, our labor rackets would guarantee continued inflation, indefinitely.

The commonest cause of an inflation, however, is the putting into circulation by government of money representing little if any value. The present inflation was brought about that way, and the government has nurtured it and kept it going for an unreasonably long period of time.

But for wars and rumors of wars, it is a certainty that this inflation would have collapsed long ago, because it has required constant feeding. It has been fed in various ways. The most obvious and direct way is by vast government payrolls, partly financed with borrowed money.

Very little of this government expenditure represents any commercial value. Expenditures for war purposes represent no commercial value whatever. If our government owned all of those oil wells in the Middle East that we are now concerned about losing, and we had an expensive war to protect this investment so that the government itself could get its money back, such a war would represent an expenditure having a commercial value. However, the government stands to get nothing back, and much of the cost of any military enterprise in the Near East will be financed with pure inflation, which will of course put money in circulation and create jobs, but depreciate the value of the dollar.

ANOTHER THING that feeds an inflation is the systematic robbery of thrifty people with savings. This robbery is deliberately undertaken by the government and surely must be with full knowledge of what is being done to people with savings, and particularly to old people, widows, and orphan children.

An ordinary commercial inflation, inspired by imprudent speculation, will soon correct itself. A government-inspired i n f l a t i o n which gets out of hand completely, as inflations so frequently do, will likewise correct itself.

We are experimenting with what its proponents call a "managed inflation." The high priests of this inflationary cult point out that under their system we can have perpetual prosperity by robbing the thrifty to take care of the shiftless. The individual is regarded, not as a free man permitted to work out his own destiny in his own way and to have or to have not, as his talents or industry dictate, but he is regarded as one ant in the hill or one bee in the hive.

These socialists look upon the individual as a soulless organism designed to support the state, and the state as an all-pervasive organism designed to look after the individual so that his efforts in his own behalf are of no consequence. This sort of socialistic

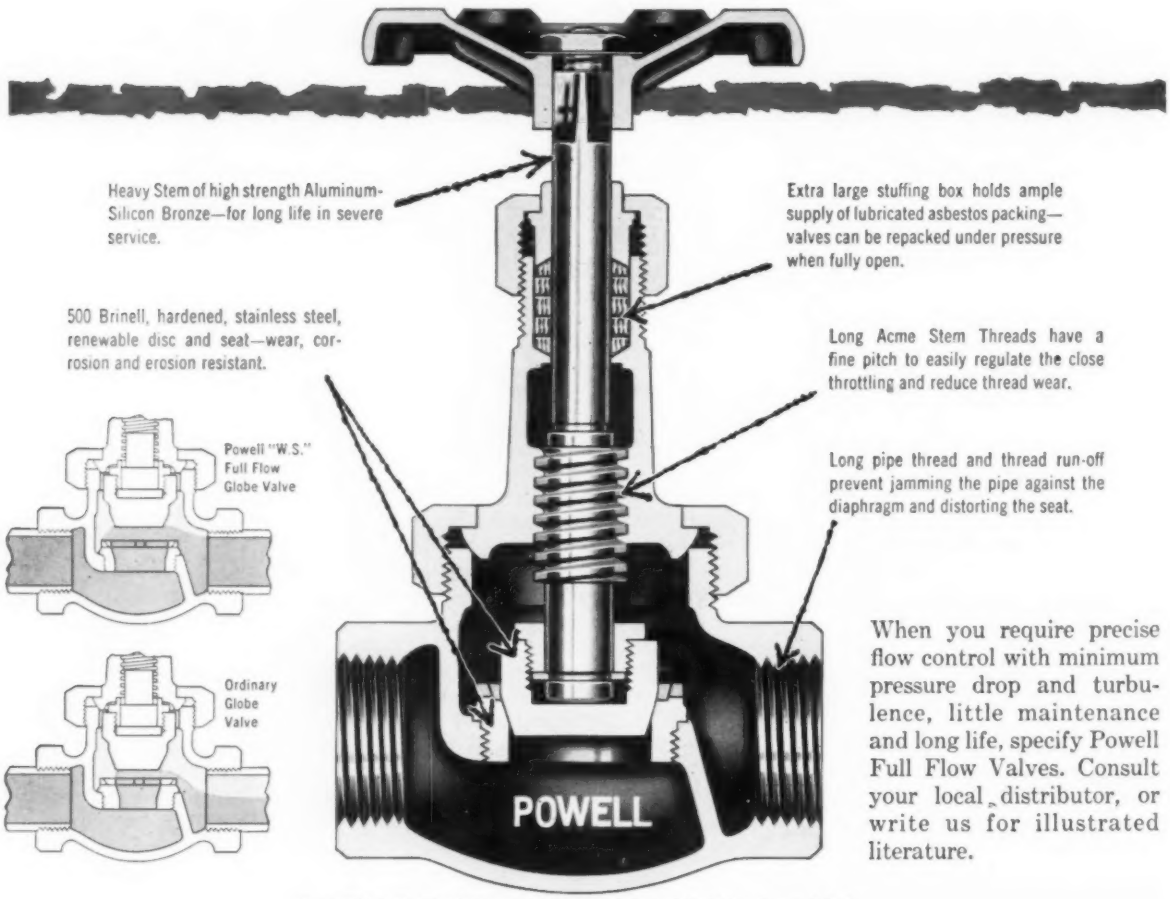
BULLETIN!

POWELL introduces new member in world's largest family of valves

Powell engineered "Full Flow" bronze valves are now available in a full line: the brand-new 150-pound screwed end Globe Valve, in addition to the well-known 200-300 pound Screwed and the 150-300 pound Flanged Globe and Angle Valves.

Although designed by Powell to assure maximum flow with minimum pressure drop and internal turbulence, these valves can be throttled to permit only the minutest amount of fluid to pass through. And, if desired, they can be supplied with Indicator Collar, Arm and V-port Disc for quickly determining flow and holding it constant.

Compare these advantages of Powell Full Flow valves:


Heavy Stem of high strength Aluminum-Silicon Bronze—for long life in severe service.
Extra large stuffing box holds ample supply of lubricated asbestos packing—valves can be repacked under pressure when fully open.
500 Brinell, hardened, stainless steel, renewable disc and seat—wear, corrosion and erosion resistant.
Long Acme Stem Threads have a fine pitch to easily regulate the close throttling and reduce thread wear.
Long pipe thread and thread run-off prevent jamming the pipe against the diaphragm and distorting the seat.
Powell "W.S." Full Flow Globe Valve
Ordinary Globe Valve
POWELL

When you require precise flow control with minimum pressure drop and turbulence, little maintenance and long life, specify Powell Full Flow Valves. Consult your local distributor, or write us for illustrated literature.

Fig. 2600 (Sectional)—150-pound "W.S." Full Flow Globe Valve, Screwed Ends

THE WM. POWELL COMPANY • *Dependable Valves Since 1846* • **Cincinnati 22, Ohio**

planning will automatically produce a boom, because it encourages people not only to spend all they have as fast as they get it, but to spend it before they get it.

It takes only a feeble intelligence to see that if you spend more than you make you have either got to begin making more or quit spending until your income catches up with your debts. Both the labor unions and the government have decided upon a policy of wiping out such debts by giving people somebody else's money with which to pay them. This quite logically encourages the people whose debts have been liquidated to incur more debts. When a man finds that getting hopelessly in debt does not bring a painful penalty, but gets his wages raised, he is in no mood to be thrifty.

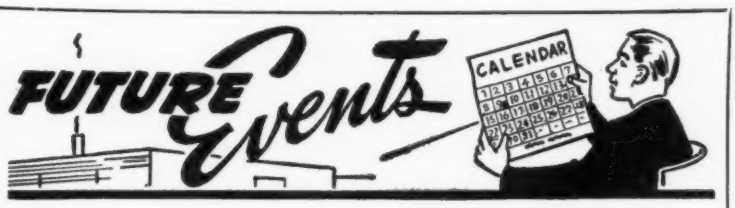
When a man finds that he does not have to have any money to buy a house, and the government will generously guarantee his notes, no matter how worthless they are, he may be encouraged to build a house that by no stretch of the imagination he could afford, and of course the money spent for building the house, no matter whose it is or where it comes from, is put into circulation and helps to generate a boom.

ALL OF THIS sort of inflationary activity leaves the government deeper and deeper in debt, and more and more responsible for paying the debts of individuals. The lot of the prudent, thrifty man constantly becomes harder. He sees his hard-saved money melting away through inflation, and many a naturally thrifty man comes to the conclusion that it is foolish to save money which constantly is worth less. The managed inflation is a settled part of our government policy, and there is no reasonable hope that anything but a drastic depression can change this policy.

We hear a great deal from various government sources about the necessity for controlling inflation, but the government is making, and has made, no serious attempt to do this. Action by the Federal Reserve System has tended to check the inflationary movement momentarily, but when you check an inflation you automatically get a recession, and when you try to wipe out the evils of inflation and win back the ground that you have lost, you will surely precipitate a serious depression.

A recession or a depression is not a thing, so much as it is a state of mind. What we think of as a depression today would have been regarded as fantastic and impossible prosperity 50 years ago.

(Continued on page 200)



Oct.	1-2	Chemical Finishing Conference	Washington, D. C.
	5-6	Dixie Public Relations Conference	University of Ga. Athens, Ga.
	6-10	Southern Textile Exposition	Greenville, S. C.
	9-10	North Carolina Textile Manufacturers Association annual meeting	Carolina Hotel Pinehurst, N. C.
	9-10	The Quartermaster Association national convention	Benjamin Franklin Hotel Philadelphia, Pa.
	10	Southern Textile Overseers Association	Greenville, S. C.
	14-16	National Industrial Packaging, Handling, and Shipping Show	The Coliseum Chicago, Ill.
	14-17	A.S.T.M. Committee D-13 fall meeting	Sheraton-McAlpin Hotel New York City
	15-25	International Textile Machinery Exhibition	Belle Vue Manchester, England
	16-17	Conference on Military Applications of Fabrics for Coatings	QM Res. & Eng. Center Natick, Mass.
	21-22	Cotton Spinner-Breeder Conference	Lubbock, Tex.
	21-22	Purchasing Workshop	Ill. Inst. of Tech. Chicago, Ill.
	23-24	Southern Textile Methods & Standards Association	Clemson House Clemson, S. C.
	25	Alabama Textile Operating Executives carding and spinning discussion, 9:30 A.M.	Thach Auditorium Auburn, Ala.
	28-29	Institute of Textile Technology technical advisory committee and board of trustees	I.T.T. Charlottesville, Va.
	28-31	Carded Yarn Association annual meeting	The Homestead Hot Springs, Va.
Oct. 30-Nov. 1		AATCC national convention	Hotel Conrad Hilton Chicago, Ill.
Nov.	5-7	Annual National Industrial Engineering and Management Clinic	Sherman Hotel Chicago, Ill.
	7-8	Textile Seminar sponsored by University of Georgia division of clothing and textiles in extension, teaching, and research	Georgia Center for Continuing Education Athens, Ga.
	8	Textile Operating Executives of Georgia slashing and weaving discussion; 9:00 A.M.	Georgia Tech Atlanta, Ga.
	17-19	Narrow Fabrics Institute annual meeting	Hotel Roosevelt New York City
Dec.	1-5	National Exposition of Power and Mechanical Engineering	Coliseum New York City
		1959	
Jan.	20-30	Plant Maintenance & Engineering Show	International Amphitheatre Chicago, Ill.
	26-29	International Heating & Air Conditioning Exposition	Convention Hall Philadelphia, Pa.
Mar.	19-21	American Cotton Manufacturers Institute annual convention	Palm Beach Biltmore Palm Beach, Fla.
Apr.	29-30	Fiber Society, Inc., spring meeting	Fontana Village, N. C.
May	4-8	Knitting Arts Exhibition	The Auditorium Atlantic City, N. J.
May	12-16	Textile Institute annual conference	Scarborough, England
May	12-14	Cotton Research Clinic	Grove Park Inn Asheville, N. C.

NEVER SAY DYE

SAY BLEND WITH COURTAULDS COLORAY®

TO COLOR FABRIC OF ACRILAN* (and get a better breed of fabric entirely) is easy with Coloray, Courtaulds' super-fast color fiber. Coloray blends readily with acrylics—or polyesters—or any fiber. Coloray brings to the blend living color without any dyeing! Color that can't fade in automatic washers or anywhere, a great advantage for wash-and-wear. And soft-spun Coloray fiber contributes to *quality*. Enhances the hand of the blend. Gives it finer appearance with controlled, perfectly even yarn. Makes it feel perfectly comfortable. Prevents pilling and dust-catching. If you're making it with Acrilan, or any other fiber, you'll make it better by blending with Coloray.

*Chemstrand's acrylic fiber

COURTAULDS COLORAY®

Solution-dyed rayon fiber with Captive Color..."Can't Escape!"

For further information on new fabric development and Coloray blends now available, write
COURTAULDS (ALABAMA) INC., *first name in man-made fiber, first name in solution-dyeing*, 600 Fifth Ave., New York 20 • Greensboro, N.C. • LeMoyne Plant, Mobile, Alabama

Southern Textile Exposition 1958

A PREVIEW OF THE GREENVILLE SHOW
BY TEXTILE INDUSTRIES

Southern Textile Exposition 1958

A PREVIEW OF THE GREENVILLE SHOW

WHEN: Oct. 6 - 10, 1958; 9 A.M. to 6 P.M. daily.

WHERE: Textile Hall in downtown Greenville, S. C.

HOW TO GET THERE: By air—Eastern, Delta, and Southern Airways. By rail—Southern Railway. By bus—Greyhound, Trailways, and Eagle bus lines. By auto—U. S. highways 25, 29, 123, and 276.

ADMISSION TO SHOW: By ticket or season pass only. Ask your suppliers' representatives or apply at Show office just inside main entrance to Textile Hall on West Washington Street.

WHAT YOU'LL SEE: This 26-page preview includes plans of 230 of the 345 exhibitors. Use it for advance planning of your trip. Note that items to be shown for first time are listed separately for each exhibitor. Also, where suppliers' representatives can be reached after show hours is indicated.

. . . SEE YOU IN GREENVILLE!

ABBOTT MACHINE CO. 814

ABINGTON TEXTILE MACHINERY WORKS 829

Exhibiting: In operation, the latest vacuum stripping system for revolving flat top cards. Hand knotters.
FIRST TIME SHOWN: Automatic remote controlled bottom discharge receiver.
Personnel in booth:
John W. Burbine, sales mgr.
W. W. (Pete) Brame, selling agt.
M. R. Bradley, service dept.
Sumner Smith, Jr., treas.
Francis J. Richardson, supt.
Oliver H. Ramo, chief engr.

ACME STEEL PRODUCTS 517
Division of Acme Steel Co.

Exhibiting: A complete line of Steelstrap, strapping tools, and accessories used for reinforcing shipping containers, baling, bundling, etc., including the new Model E41 electrically powered strap feed unit, Model A4 Steelstrapper combination hand tool (pneumatically powered), and the Model E33 Steelstrap dispenser.
FIRST TIME SHOWN: Model E41 electrically powered strap feed unit which feeds bands around large containers, eliminating the necessity of the operator walking around the package or being assisted by another person. Model A4 Steelstrapper combination hand tool (pneumatically powered) which tensions, seals, and cuts the band, all with power.
Personnel in booth:
G. R. Easley, area mgr.
D. C. Jorgensen, dist. mgr.
M. M. Brown, sales rep.
J. B. Farr, sales rep.
E. H. Jones, sales rep.
E. S. Lumpkin, sales rep.
J. N. McLean, sales rep.
C. E. Paul, service engr.
J. B. Quarles, sales rep.
J. H. Scott, sales rep.
S. F. Woodley, spec. rep.
R. M. Snodell, exhibit mgr.
Quartered at: Greenville and Poinsett Hotels

ACME STEEL CO. 341
Fabricated Materials Div.

Exhibiting: A metal slotted angle, an all-purpose framing material used for building shelving, bins, racks, dollies, carts, tables, mezzanines, etc.
FIRST TIME SHOWN: All of the above items.
Personnel in booth:
W. B. Bender, dist. supv.
M. G. Niergarth, sales rep.
R. H. Lovelace, sales rep.
Quartered at: Flamingo Motel Court

ADAMS, INC. 451

Exhibiting: The "Adamstop" stop motion for roving frames.
Personnel in booth:
S. J. Adams, pres.
J. B. Adams
Cecil Adams
L. A. Deal
E. Frank Walker

ADDRESSOGRAPH-MULTIGRAPH CORP. 362

Exhibiting: Class 1250 Multigraph Multilith offset duplicator, equipped with three-color attachment; Class 1250 machine for production order writing; Model 750 machine for order and invoice writing; Class 1955 unit card inventory machine; Model 350 machine for embossing metal plates; Model 200 and Model 30 mailing machines.
Personnel in booth:
D. F. Green, market dev. rep.
L. A. Smith, market dev. rep.
R. F. Armstrong, br. mgr.
J. A. Mathews, br. mgr.

AKRON SPOOL MFG. CO. 432

(See R. E. L. Holt, Jr., and Associates)

ALDRICH MACHINE WORKS 269

Exhibiting: The finisher section of a single process picker showing a new calender with pneumatic lap compression; a Lummus all-steel blending feeder followed by tandem Pepper Shaker openers; a conventional feed table for picking up cotton from the Pepper Shaker openers; a Lummus air filter for cleaning dusty air from opening and picking machines, shears, brushers, or nappers.
FIRST TIME SHOWN: The picker calender with pneumatic lap compression and the Lummus air filter.
Personnel in booth:
A. P. Aldrich, Jr., pres.
W. D. Wornall
Ben R. Morris
B. Gales McClintock
Quartered at: Poinsett Hotel

ALLEN BEAM CO. 101

ALLEN-BRADLEY CO. 413

THE ALLENTOWN BOBBIN WORKS, INC. 316

Exhibiting: Bobbins and spools for the processing of fine denier yarns.
Personnel in booth:
Henry W. Mack, vice-pres.
Quartered at: Hotel Greenville

ALLIED CHEMICAL CORP. 263

Exhibiting: Caprolan yarns and fabrics.
FIRST TIME SHOWN: New Caprolan put-ups; textured filament yarns in carpet and upholstery.
Personnel in booth:
Daniel M. Holsenbeck, sales rep.
Norfleet M. Gibbs, salesman
Quartered at: Poinsett Hotel

ALLIED PRODUCERS & SUPPLY CO. 301

Exhibiting: Floor finishing materials and a spray-type metering system for fiber conditioning with Apsco FT-4 Fiber Treatment.
FIRST TIME SHOWN: Spray-type metering system for fiber conditioning which services as many as six opener hoppers and is adjustable to one c.c. per minute.
Personnel in booth:
Eugene C. Walters
Julian A. Rachels, Jr.
Perron Shoemaker

ALLIS-CHALMERS MFG. CO. 414

Exhibiting: A card drive and control; complete line of Texrope V-belt drive equipment; and an integral horsepower close-coupled pump (Model C-2).
Personnel in booth:
C. B. Rumble, Jr., mgr. Charlotte
A. W. Robinson, rep.
D. A. Locke, supv. sales, "Texrope" Drive dept.
R. W. McKee, exhibitions and conventions
Quartered at: Hotel Greenville

THE LOUIS ALLIS CO. 504

Exhibiting: A pancake motor; Syncro-Spede synchronous induction motor; Clean-Flo totally enclosed textile motor; Adjusto-Spede a-c variable speed drive; standard a-c motors and gearmotors.
FIRST TIME SHOWN: Pancake short over-all length motor and Syncro-Spede synchronous induction motor.
Personnel in booth:

M. E. Weitekamp	Al Wiegand
Jim Bodeker	Bob Overstreet
Jim Smith	Joe Moody
Bud Becker	Paul Connell

Quartered at: Poinsett Hotel

ALVEY CONVEYOR MFG. CO. 515

Exhibiting: Case histories showing how textile mills have solved various materials handling problems; photographs of equipment in operation; bulletins describing equipment.
Personnel in booth:
L. D. Burdette, Jr., dist. mgr.
C. S. Easley, dist. mgr.
W. H. Oswald, vice-pres.

AMERICAN AIR FILTER CO., INC. 437

Exhibiting: Auto-Airmat automatic lint filter; Electro-Matic electronic precipitator; unit and panel type filters.
Personnel in booth:
R. V. Matkin, supv. engr.
Kirk Cousart, rep.
Tom Curlee, Jr., rep.
Quartered at: Poinsett Hotel

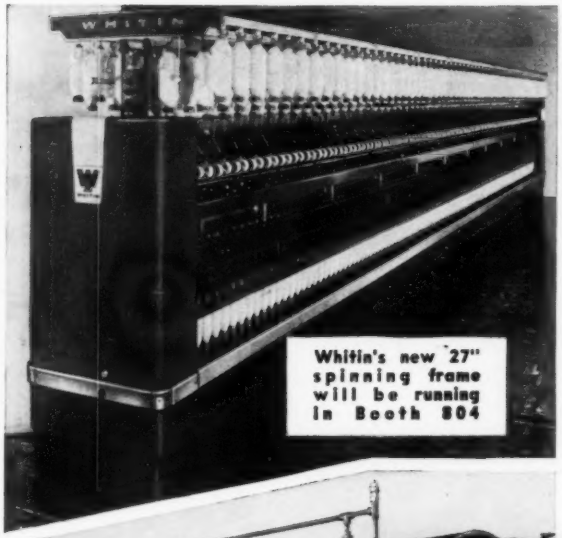
THE AMERICAN CRAYON CO. 332

AMERICAN LAVA CORP. 472

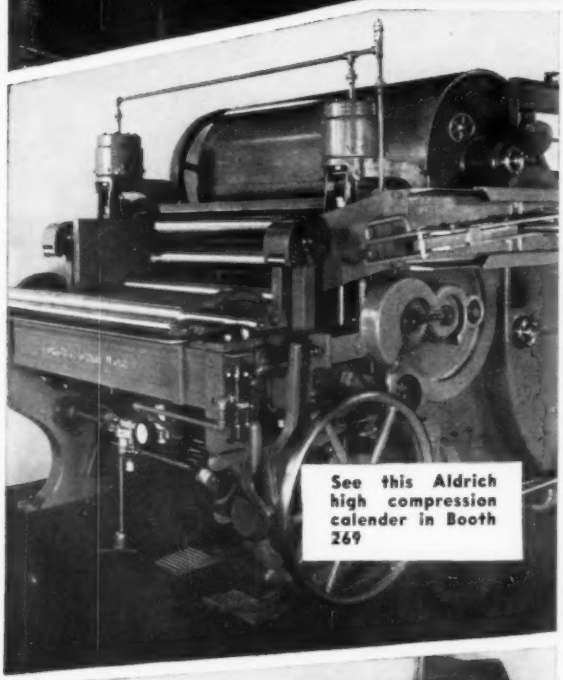
Exhibiting: Alsimag thread guides, including new materials and designs.
Personnel in booth:
J. B. Shacklett, sales mgr.
J. W. Crisp, sales engr.
W. M. Crittenden, Jr., sales engr.
W. H. Cooper, sales engr.
Jay S. Gosnell, sales engr.
W. J. Geary, sales engr.
Quartered at: Hotel Greenville

AMERICAN MOISTENING CO. 840

Exhibiting: Operating Helicione loom cleaner and movie of mill installation; the Aero-Miser atomizer; automatic overhead-type beam handling unit; high-capacity automatic floor sweeper; hand portable psychrometer; portable machine cleaning solution sprayer; atomizer test stand; evaporative cooling units; No. 6 atomizer; Blow-thru valves; humidity controls; aspirating control station; dry duct unit (operating); sling psychrom-



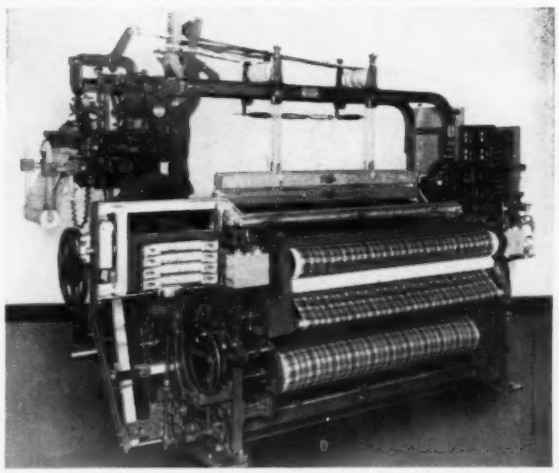
Whitin's new 27" spinning frame will be running in Booth 804



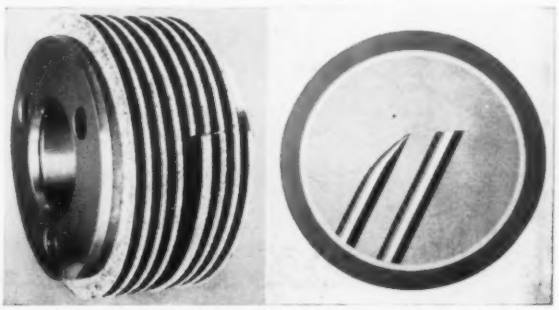
See this Aldrich high compression calender in Booth 269

Saco-Lowell will show big coilers for drawing in Booth 835

Magnetic top rolls, to be introduced by Saco-Lowell in Booth 835, eliminate need for parts for applying pressure.

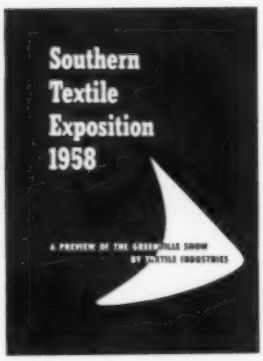


This new Crompton & Knowles Model C-7 automatic bobbin changing loom will be weaving dress goods in Booth 138. For details, see New Product Parade, page 239.



Featured in Booth 468 will be Benjamin Booth's "Micr-O-Grind" abrasive wheel (left photo) for putting a needle point on card clothing as shown at left in right photo.

Handy for measuring goods containing defective yardage not to be included is this new "SR-8" instrument to be exhibited by Trumeter in Booth 227.



eters; Model 35 self-contained humidifier.
FIRST TIME SHOWN: The Aero-Miser atomizer; the automatic beam handling unit (overhead type); the high capacity automatic floor sweeper; the hand portable psychrometer; the portable solution sprayer for cleaning of looms and other textile machinery.
Personnel in booth:
W. A. Mullins
J. D. Johnson — H. R. Rich
J. H. Waldrip — J. Anderegg
J. E. Townsend — M. H. Irons
L. D. Terry — R. A. Hartley
A. A. St. Germain — J. Walmsley

AMERICAN MONORAIL CO. 111
Exhibiting: Automatic cleaning equipment for spinning and roving frames, looms, etc. Two new types of overhead conveyors.
FIRST TIME SHOWN: Roving frame cleaner; cable-way conveyor.
Personnel in booth:
C. L. Fell, v.p.-marketing
L. R. McEachern, sales mgr. S. E. div.
John Browne, Atlanta dist. mgr.
V. W. Cook, Charlotte, dist. mgr.
H. J. Gleaton, Greenville, dist. mgr.
E. H. Doerger, adv. mgr.

THE AMERICAN PULLEY CO. 212
Exhibiting: Card drives; casters; wide range sheave; Adjusto-Slide motor base.
FIRST TIME SHOWN: The Model C-205A card drive.
Personnel in booth:
James Williams, sales rep.
Samuel Evans, sales rep.
H. Merrill Bowman, v. p.-sales
Ray Stout, mgr. Hubbard Spool div.
Quartered at: Orvin Court Motel

AMERICAN SAFETY TABLE CO.....234
(See Hollister-Moreland Co.)

AMERICAN GEAR CO.....106-A
(See Ira M. Valentine)

"AMERICA'S TEXTILE REPORTER".....225

ANHEUSER-BUSCH, INC.....513
Exhibiting: Corn starches and dextrines.
Personnel in booth:
W. P. Hope, S. E. reg. mgr.
J. C. Aycock, sales rep.
T. M. Hampton, Jr., sales rep.
K. M. Battenfield, mgr. tech. sales service
C. J. Liebman, sales service rep.
Quartered at: Greenville Hotel & Poinsett Hotel

ARMSTRONG CORK CO. 816
Exhibiting: Spinning cots and aprons, loom supplies, roll shop equipment, and miscellaneous textile mill supplies.
Personnel in booth:
T. L. Hill, mgr. tetxtile products sales
J. V. Ashley, mgr. Greenville office

ARMSTRONG MACHINE WORKS.....443
Exhibiting: Glass-bodied steam trap operating on steam at 7 psi; steam traps; air traps; pipe line strainers; humidifiers.
Personnel in booth:
T. M. Reed, sales mgr.
O. E. Ulrich, factory rep.
Dolph Shepherd
Theo. Abbey
Wayne Hagermann
Parks Terry
DeWitt Skinner

ASHWORTH BROTHERS, INC.....122
Exhibiting: Card clothing, both conventional and metallic; napper clothing; licker-in wire; garnet wire; flexible bend grinding; remilling of flats; reclothed flats; reclothed lickers-in.
Personnel in booth:
R. C. Ashworth, Jr., pres.
W. R. Flynn, Jr., v. p.
H. Ashworth, asst. treas.
R. C. Ashworth, III, sales & service
F. L. Armitage, mgr. Phila.
J. M. Reed, sms. mgr.
J. E. Seacord, Jr., Charlotte mgr.
T. F. Hart, sales & service
G. K. Grassmyer, sales & service
A. E. Johnston, Jr., mgr. Greenville
C. C. Withington, Jr., sales & service
W. G. Halstead, mgr. Atlanta
Ray Clary, sales & service

ASKANIA REGULATOR CO.....117
Exhibiting: Model 525 Twin Jet cloth guide for tenter frame and other textile applications; Model 558 cloth guide for tufting machines and other applications; light duty batch roll let-out stand with integral hydraulic cylinder.
FIRST TIME SHOWN: All of the above items.
Personnel in booth:
Frank Markey, mgr. Edge Guide div.
Earl Schroeder, sales engr.
Quartered at: The Ottaray Hotel

ATKINSON, HASERICK & CO.....481

ATLANTA BRUSH CO.....418
Exhibiting: Complete line of textile brushes, including many labor-saving special-purpose brushes.
Personnel in booth:
Wm. C. Perkins, vice-pres.
George B. Snow, sales rep.
A. W. Dillard, sales rep.
Ansel McNeill, sales rep.
Jack Nelms, sales rep.
Quartered at: Hotel Greenville

ATLANTIC GELATIN 501
Division of General Foods
(See Ira L. Griffin & Sons)

B & S MACHINE CO., INC.....275

BACHMANN UXBRIDGE WORSTED CORP. 501
(See Ira L. Griffin & Sons)

BANCROFT BELTING CO.....229
(See Wilson F. Hurley)

BAHAN TEXTILE MACHINERY CO., INC. 139-B
Exhibiting: Looms, loom parts, and loom assemblies.
Personnel in booth:
W. H. Maulding — W. R. Rothrock
Paul Bahan — W. L. Wilson
C. L. Greene — J. A. Sammons

THE BAHNSON CO. 830
Exhibiting: Air washer, fan-duct-grilles; atomizers-humidifiers-Humiduct; air filters; end collection equipment for spinning frames; Cross-Jet cleaner; Allred-Aire-Sweep cleaner; automatic doffing and material conveying equipment; central heat removal.
Personnel in booth:
Frederick Boxall, engr. dept.
Agnew H. Bahnson, Jr., pres.
Arthur E. Thomas, sales dept.
R. B. Crosland, salesman
F. W. Walters, salesman
Tom Elder, salesman
Ira Brown, salesman
Joe Browning, salesman
Quartered at: Poinsett Hotel

BARBER-COLMAN CO. TEXTILE DIV.....254
Exhibiting: In operation, a 20-spindle Type "DD" spooler which builds a 4° cone-shaped package containing up to 6½ pounds of yarn for use on doublers, twisters, rewinders, and knitting machines.
Personnel in booth:
R. G. Ross, vice-pres.
F. D. Taylor, mgr.
L. L. Lideen, mgr.

BARBER-COLMAN CO. DOOR DIV.....218

BARRELED SUNLIGHT PAINT CO.....223
Exhibiting: "Engineered Paints" for textile mill maintenance; "Engineered Color" for better seeing and working conditions.
Personnel in booth:
Henry A. Solie, sales mgr.
John F. Crawley, asst. sales mgr.
E. A. "Sonny" Barrett, sales rep.
Cecil L. Duffie, sales rep.
Preston R. Singletary, sales rep.
Quartered at: Poinsett Hotel

THE BASSICK CO.....411
Exhibiting: Casters for textile mills.
Personnel in booth:
E. P. Ripley, salesman
Robert Huber, salesman
Harold Bursley, salesman
T. J. Israel, sales engr.

LOUIS P. BATSON CO.....220
Exhibiting: All types of felts; machine repair and replacement parts; vibration mountings; dobby and gem loops, stirrups and jack eyes; harness adjustors (turnbuckle); dobby and harness cords; positive adjustment jack sticks and parts; plastic pickers; wood parts; shuttle fur; warm air hand dryers; static eliminators.
FIRST TIME SHOWN: ShuR-TufF dobby loop or stirrup; ShuR-TufF turnbuckle harness adjustor; dobby or harness cords with airplane cable in center; positive adjustment jack sticks for cam looms; ShuR-CusH vibration mounting for machinery.
Personnel in booth:
Louis P. Batson, Jr., pres.
H. Elliott Batson, vice-pres.
W. J. Grant, salesman
Lee Shook, salesman
Charles Carpenter, salesman
David Murphy, salesman
John P. Batson, salesman
Frank Hanscom, salesman
Ted Ruwitch, salesman
Harry Cannon, salesman
Joe Williams, salesman

Continued on page 135

Here's your handy floor plan of Textile Hall

Tear it out NOW and take it with you to Greenville

■ When you find in this preview of the Show items of special interest, circle on the floor plan the booths in which they will be found. Upon reaching Textile Hall, visit those booths first, using the floor plan to save time in locating them. The remainder of your day will then be available for browsing the entire 100,000 sq ft exhibition area.

IT'S EASY to find a particular supplier. Locate his name in the alphabetical listing in the folder, note his booth number, and then find that number on the floor plan. The big green arrows quickly guide you to booth numbers.

Textile Industries

DIRECTORY TO EXHIBITORS

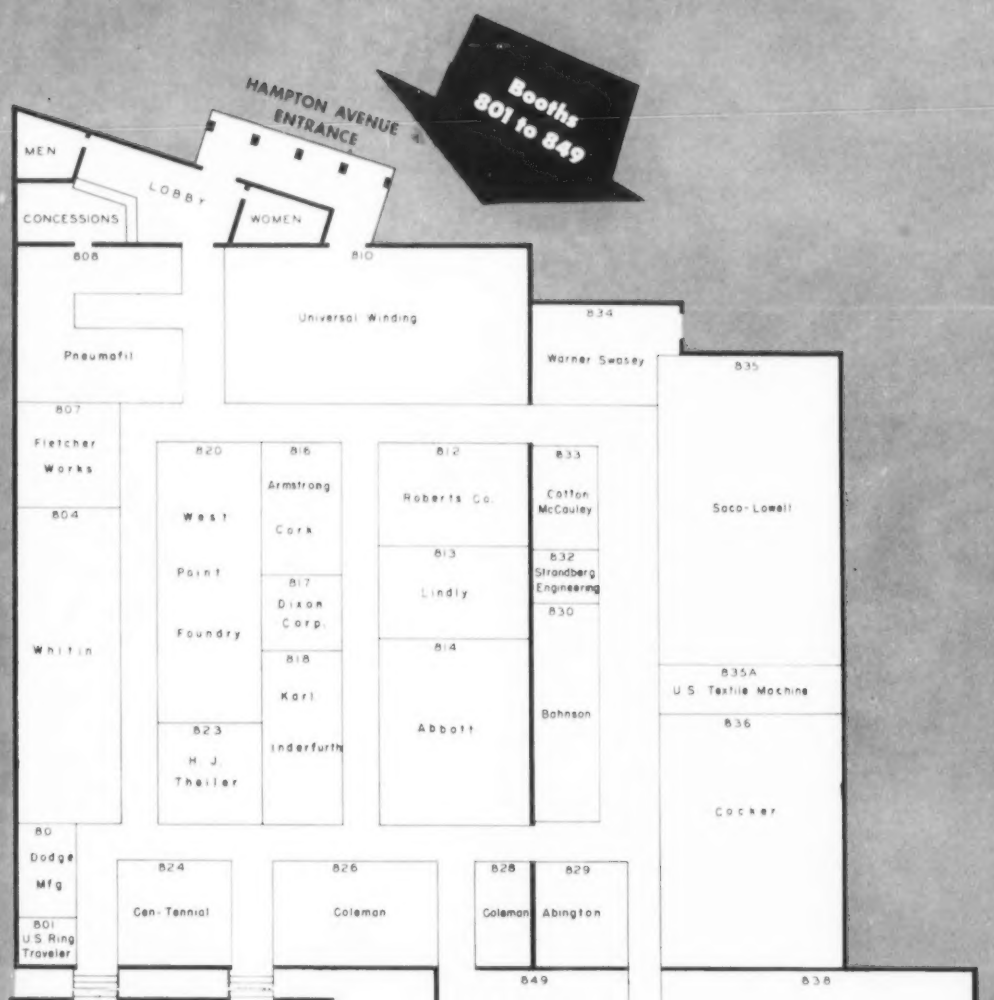
20th Southern Textile Exposition

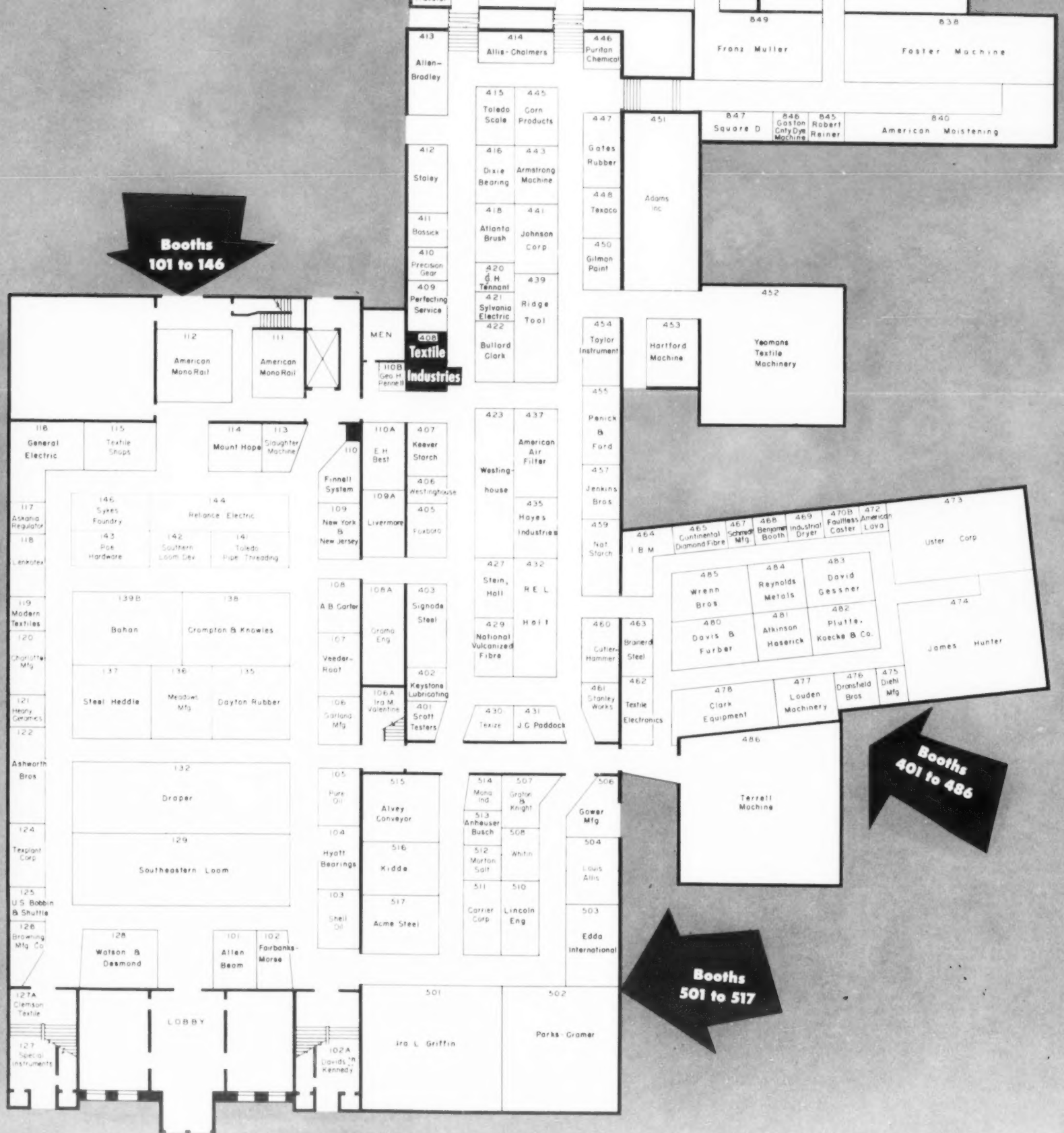
TEXTILE HALL–GREENVILLE, S. C.

October 6-10, 1958

GROUND FLOOR
Booths
101-146
401-486
501-517
801-849

For Second Floor and Balcony, see other side




Booths 101 to 146
Booths 401 to 486
Booths 501 to 517
MAIN ENTRANCE
West Washington Street
LOBBY
MEN
408 Textile Industries
112 American Mono Rail
111 American Mono Rail
110B Geo. H. Pennell
118 General Electric
115 Textile Shops
114 Mount Hope
113 Slaughter Machine
110 Finnell System
110A E. H. Best
109A Livermore
109 New York & New Jersey
107 Veeder-Root
108 A. B. Carter
108A Grama Eng.
106 Sarlana Mfg.
106A Ira M. Valentine
401 Scott Testers
407 Keever Starch
406 Westinghouse
405 Foxboro
403 Signode Steel
402 Keystone Lubricating
146 Sykes Foundry
144 Reliance Electric
143 Pipe Hardware
142 Southern Loom Dev.
141 Toledo Pipe Threading
117 Askania Regulator
118 Lenkurt
119 Modern Textiles
120 Chorlton Mfg.
121 Henry Ceramics
122 Ashworth Bros.
124 Texpint Corp.
125 U.S. Bobbin & Shuttle
126 Browning Mfg. Co.
127A Clemson Textile
127 Special Instruments
139B Bahan
138 Crompton & Knowles
137 Steel Heddle
136 Meadows Mfg.
135 Dayton Rubber
132 Draper
129 Southeastern Loom
128 Watson & Desmond
101 Allen Beam
102 Fairbanks-Morse
102A Lavids & Kennedy
105 Flynn Oil
104 Hyatt Bearings
103 Shell Oil
515 Alvey Conveyor
516 Kidde
517 Acme Steel
501 Ira L. Griffin
502 Parks-Cramer
423 Westinghouse
437 American Air Filter
435 Hayes Industries
427 Stein, Hall
432 R E L
429 National Vulcanized Fibre
430 Texize
431 J.G. Paddock
514 Monsanto Ind.
507 Graton & Knight
513 Anheuser Busch
508 White
512 Morton Salt
511 Carrier Corp.
510 Lincoln Eng.
506 Gower Mfg.
504 Louis Allis
503 Edda International
415 Toledo Scale
445 Corn Products
416 Dixie Bearing
443 Armstrong Machine
418 Atlanta Brush
441 Johnson Corp.
420 C.H. Tennant
439 Ridge Tool
421 Sylvania Electric
422 Bullard Clark
413 Allen-Bradley
414 Allis-Chalmers
446 Puritan Chemical
412 Staley
411 Bassick
410 Precision Gear
409 Perfecting Service
447 Gates Rubber
448 Texaco
450 Gilman Paint
451 Adams Inc.
849 Franz Muller
838 Foster Machine
847 Square D
846 Gaston Cnty Dye Machine
845 Robert Reiner
840 American Moistening
452 Yeomans Textile Machinery
454 Taylor Instrument
453 Hartford Machine
455 Panick & Ford
457 Jenkins Bros.
459 Nat. Starch
464 I B M
465 Continental Diamond Fibre
467 Schmidt Mfg.
468 Benjamin Booth
469 Industrial Dryer
470B Faultless Caster
472 American Lava
473 Ulster Corp.
485 Wrenn Bros.
484 Reynolds Metals
483 David Gessner
480 Davis & Furber
481 Atkinson Haserick
482 Plutte, Koecke & Co.
474 James Hunter
460 Cutler-Hammer
463 Brainerd Steel
461 Stanley Works
462 Textile Electronics
478 Clark Equipment
477 Louden Machinery
476 Dransfield Bros.
475 Diehl Mfg.
486 Terrell Machine

Alphabetical list of exhibitors and their booth numbers

To find Booths 201-275 and 301-366, refer to Second Floor and Balcony plans below

Other Booths are located on the Ground Floor (see other side)

Name	Booth
Abbott	814
Abington	829
Acme Steel	517 & 341
Adams, Inc.	451
Addressograph	362
Akron Spool	432
Aldrich Mach.	269
Allen Beam	101
Allen-Bradley	413
Allentown Bobbin	316
Allied Chemical	263
Allied Producers	301
Allis-Chalmers	414
Louis Allis	504
Alvey Conveyor	515
American Air Filter	437
American Crayon	332
American Lava	472
American Moistening	840
American MonoRail	111
American Pulley	212
American Safety Table	234
American Stock Gear	106A
America's Textile Reporter	225
Anderson Printing	274
Anheuser-Busch, Inc.	513
Armstrong Cork	816
Armstrong Machine	443
Ashworth Bros.	122
Askania Regulator	117
Atkinson, Haserick	481
Atlanta Brush	418
Atlantic Gelatin	501
B & S Machine	275
Bachmann Uxbridge	501
Bancroft Belting	229
Bahan Textile Mach'y	139B
Bahnson Co.	830
Barber-Colman	254 & 218
Barreled Sunlight	223
Bassick Co.	411
Louis P. Batson	220
Batson Mfg.	220
Edw. H. Best	110A
Birch Bros.	248
Benjamin Booth	468
Bouligny	826
Bowen-Hunter	212
Brainerd Steel	463
Browning Mfg.	126
Bullard Clark	422
Burlington Industries	432
Carolina Belting	217
Carolina Radio Supply	320
Carolina Supply	230
Carrier Corp.	511
A. B. Carter	108
Cen-Tennial Cotton Gin	824
Chandler Machine	359
Charlotte Mfg.	120
Clark-Cutler-McDermott	452
Clark Equipment	478
Clemson Textile School	127A
Clinton Corn	205
Coats & Clark	221
Cocker Machine	836
Colby Coop. Starch	501
Coleman	826
Collins Bros. Machine	818
Colson Corp.	485
Continental Diamond Fibre	465
Cook Machine	322
Corn Products	445
Cotton-McCauley	833
Crabtree Textile Accessories	321
Crompton & Knowles	138
Cross Sales	349
Curtis & Marble	235
Cutler-Hammer	460
Daily News Record	210
Darnell Corp.	212
Davidson-Kennedy	102A
Davis & Furber	480
Dayton Rubber	135
Denman Text. Rubber	818
Diehl Mfg.	475
Dinsmore Mfg.	234
Dixie Bearings	416
Dixon Corp.	817
Dow Chemical (Fibers)	241
Dodge Mfg.	802
George P. Dorris	106A
Draper Corp.	132
Dronsfield Bros.	476
Eclipse Machine	212
Edda International	503
Engineered Plastics	214
Eriez Mfg.	357
Exact Weight Scale	208
Excel, Inc.	231
Extremultus	272
Fafnir Bearing	247
Fairbanks, Morse	102
Faultless Caster	470B
Fenwal, Inc.	360
Fife Mfg.	308
Finnell System	110
Fisher Mfg.	314
Fletcher Works	807
Foster Machine	838
I. Foulds & Sons	229
Foxboro	405
Garland Mfg.	106
Gast Mfg.	318
Gaston Co. Dyeing Mach.	846
Gates Rubber	447
P. C. Gault	354
General Box	324
General Electric	116
General Enterprises	337
Georgia-Carolina Oil	329
David Gessner	483
Gifu Keiki	245
Gilman Paint	450
Glover Wood Turning	432
Godo Shuttle	245
Goldens' Foundry & Mach.	268
Gossett Mach.	233
George A. Goulston	331
Gower Mfg.	506
Graton & Knight	507
Greenville Tex. Supply	212
Ira L. Griffin	501
Gulf Oil Corp.	211
Hartford Machine Screw	453
Hatcher Sales	365
Donald Hawthorne	274
Hayes Industries	435
Heany Ceramics	121
Herr Mfg.	267
W. K. Hile	360
Hillyard Chemical	305
Hollister-Moreland	234
R. E. L. Holt	432
Hotwatt	360
Howard Bros. Mfg.	252
Hubinger	501
James Hunter	474
Wilson F. Hurley	229
Hyatt Bearings	104
Hyster Co.	485
Ideal Industries	239
Ideal Machine Shops	239
Karl H. Inderfurth	818
Industrial Coatings	219
Industrial Dryer	469
IBM Corp.	464
ICS	336
Izumi Bobbin	245
Jenkins Bros.	457
Johnson Corp.	441
Johns-Manville	228
Keever Starch	407
Wm. Kenyon & Sons	326
Keystone Lubricating	402
Kidde Textile Mach'y	516
L. W. Kinnear	318
Kirkman & Dixon	201
Lambeth Rope	222
W. T. Lane Bros.	212
Lenkotex	118
Lincoln Engineering	510
Lindly	813
H. F. Livermore	109A
Livingston & Haven	366
Livingstone Coating	311
Lockwood Greene	207
Louden Machinery	477
Lundia	274
M. B. Products	229
MacBeth Corp.	113
Manton - Gaulin	115
Marchant Calculators	347
Marquette	264
Marsh Stencil	355
Marshall & Williams	249
Master Electric	144
McDonough Power	327
Meadows Mfg.	136
Merrow Machine	234
Metlon Corp.	818
Minnesota Paints	325
Mitcham & Co.	270
Mitchell-Bissell	432
Modern Office Machines	271
Modern Textiles	119
Moffatt Bearings	265
Mona Industries	514
Monroe Calculators	343
Morton Salt	512
Mount Hope Machinery	114
Franz Muller	849
T. J. Murphy Fur	220
National Carbon	339
National Ring Traveler	213
National Starch Products	459
National Vulcanized Fibre	429
Nemo Industries	334
New England Paper Tube	128
N. Y. & N. J. Lubricant	109
Nippon Spindle	245
Roy Noble Co.	220
C. A. Norgren	318
Norris Bros.	432
O-M Spinning Machine	245
Olney Paint	450
Orama Engineering	108A
Ore-Lube Co.	337
Oster Mfg.	364
J. C. Paddock	431
Parks-Cramer	502
M. H. Parks	229
Parks & Woolson	322
Pawtucket Spinning Ring	835
Penick & Ford	455
Geo. H Pennell	110B
Perfecting Service	409
Permacel-LePage's	303
Perolin	361
Pick Mfg.	310
Platte-Koecke	482
Pneumafil	808
Poe Hardware & Supply	143
Powers Regulator	356
Precision Gear	410
Proctor & Schwartz	262
Progressive Engineering	129
Pure Oil	105
Puritan Chemical	446
Ramset Fastening	110B
Ramsey Chain	106A
Reeves Pulley	144
Robert Reiner	845
Reliance Elec. & Engr.	144
Reynolds Metals	484
Rice Dobby Chain	432
Ridge Tool	439
Riggs & Lombard	322
Roberts	812
E. F. Rose	302
Rotherm Engineering	215
B. S. Roy & Son	206
Edward S. Rudnick	245
Saco Lowell Shops	835
Schachner Leather	338
Scharer Text. Mach.	452
W. Schlafhorst	486
Schmidt Mfg.	467
Scott Testers	401
Selig Co.	232
Seydel-Woolley	238
Shell Oil	103
Signode Steel Strapping	403
J. E. Sirrine	204
Slaughter Mach'y	113
Slip-Not Belting	358
E. E. Smith & Son	313
B. Snowiss Fur	432
Sonoco Products	244
Southeastern Loom & Mach.	129
Southeastern Safety Appl.	346
Southern Loom Dev.	142
Southern States Equip.	266
Southern Textile News	304
Spaulding Fibre Co.	202
Special Instruments Lab.	127
Square D	847
A. E. Staley	412
Stanley Works	461
Steel Heddle	137
Stein, Hall	427
Sterling Engr.	216
Strandberg Engr. Lab.	832
Sunray	212
Superior Bolster	307
Sykes Foundry & Mach.	146
Sylvania Elec. Prod.	421
Taylor Instrument	454
G. H. Tennant	420
Terrell Machine	486
Texas Co.	448
Texize Chemicals	430
Texpak Plastics	319
Texplant Corp.	124
Textile Bulletin	203
Textile Electronics	462
TEXTILE INDUSTRIES	408
Textile Publications	273
Textile Shops	115
Textile World	224
Textube	124
H. J. Theiler	823
Toledo Pipe Threading	141
Toledo Scale	415
Ton-Tex	432
Trion	317
Trumeter	227
Union Bag-Camp Paper	350
Universal Winding	810
U. S. Bobbin & Shuttle	125
U. S. Ring Traveler	801
U. S. Text. Machine	835A
Uster	473
Ira M. Valentine	106A
Valvair	318
Vaughn & Co.	335A
Veeder-Root	107
Vermont Spool & Bobbin	128
Victor Ring Traveler	835
WAK Industries	335
Walworth	352
Warner & Swasey	834
Wat-Des	128
Watson & Desmond	128
Watson-Williams Mfg.	128
West Chemical	340
Westinghouse Air Brake	366
Westinghouse Electric	423
Westinghouse Lamp Div.	406
West Point Fdry. & Mach.	820
Wheel Trueing Tool	110B
Whitin	804
Whitin, Parts Dept.	508
Whiting Products	323
Whitinsville Ring	209
T. B. Wood's Sons	242B
Woonsocket Napping Mach. Co.	East Lounge
World Dryer	220
Wrenn Bros.	485
Yale & Towne	826
Yeomans Text. Mach'y	452
F. A. Young Machine	257
Zinser	128

Textile Industries

DIRECTORY TO EXHIBITORS

20th Southern Textile Exposition

TEXTILE HALL—GREENVILLE, S.C.

October 6-10, 1958

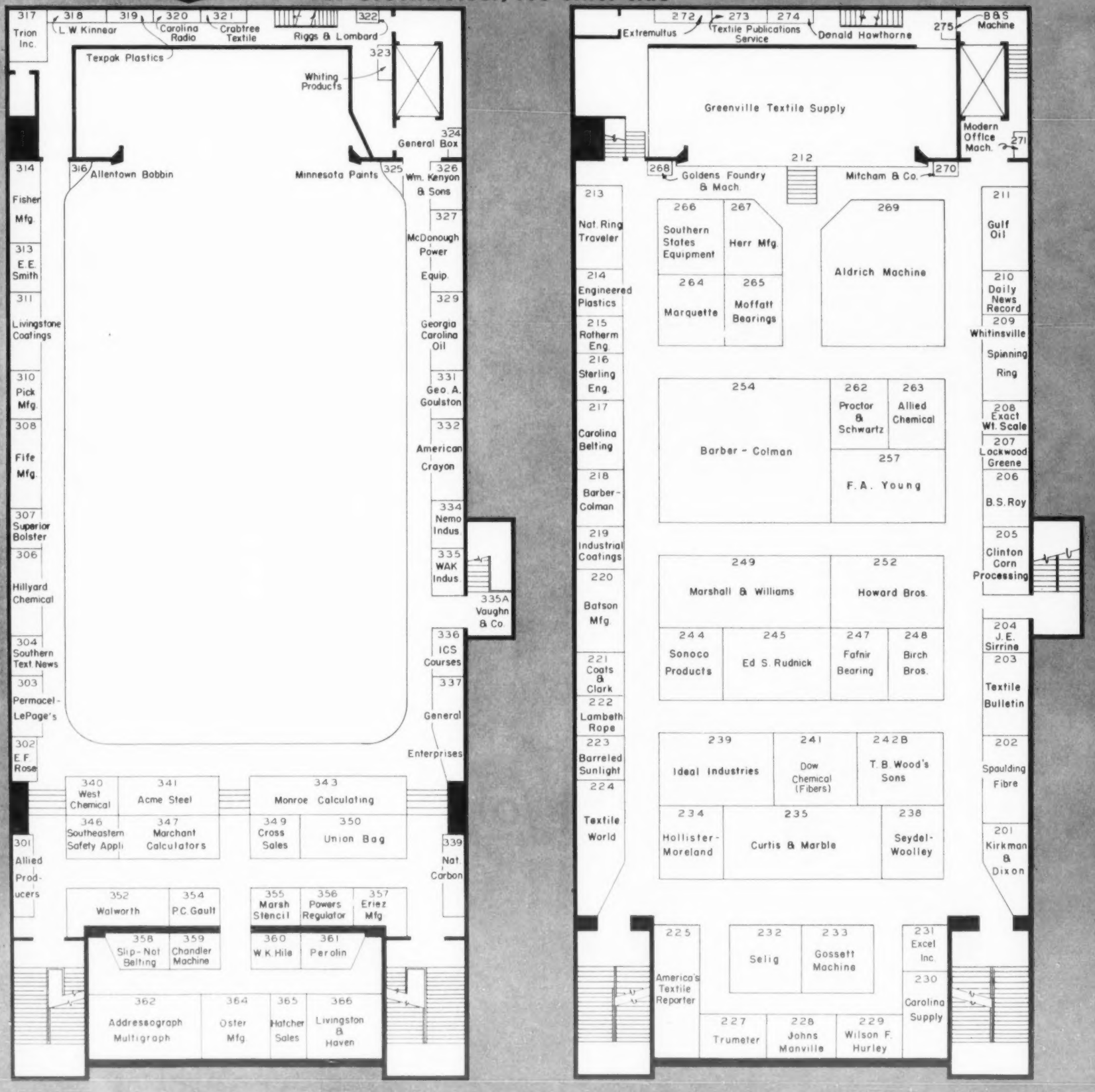
BALCONY
Booths 301-366

SECOND FLOOR
Booths 201-275

Booths 301-366

Booths 201-275

For Ground Floor, see other side



BATSON MFG. CO., INC. **220**

Exhibiting: Wood products; pickersticks; binders; loom lays; clearer rolls; back stays; cones; rolls; bobbins; jack sticks; loom flags; shuttle fur; pinboards; temple rolls; Nobetta take-up roll covering; corduroy guides and knives; fiber brooms.
FIRST TIME SHOWN: Nobetta take-up roll covering; tapered temple rolls; composition-covered clearer rolls for spinning.
Personnel in booth:
John P. Batson, pres. & mgr.
Mrs. Louis P. Batson, Sr., v. p.
Louis P. Batson, Jr., sales mgr.
Elliott Batson, salesman
Harry Cannon, salesman
Joe Williams, salesman
Dave Murphy, salesman
Roy Noble, salesman

EDWARD H. BEST & CO. **110-A**

Exhibiting: A pure gum rubber compressive shrinkage blanket; new type of endless clearer; samples of fabrics for the textile industry
FIRST TIME SHOWN: Pure gum rubber compressive shrinkage blanket; new type of endless clearer.
Personnel in booth:
John W. Hill, pres.
B. C. Yates, Jr., rep.
W. C. Hames, rep.
Quartered at: Catalina Motel

BIRCH BROTHERS, INC. **248**

Exhibiting: Model MF "Supreme" automatic grey room sewing machine; Model 1237 laboratory padder; "Coronation" chain stitch piece end sewing machine; the "Supreme" butt-seam railway sewing machine; Model 5 automatic cut-off winder.
FIRST TIME SHOWN: Model MF "Supreme" automatic grey room sewing machine.
Personnel in booth:
Clifford W. Birch, Jr., pres.
Richard Briggs, vice-pres.
John C. Cosby, sou. rep.

BENJAMIN BOOTH CO. **468**

Exhibiting: Micr-O-Grind needle point card clothing; Supr-O-Tape condenser tapes; Supr-O-Band spindle tapes; Strip-O-Matic card clothing.
FIRST TIME SHOWN: Micr-O-Grind equipment for putting needle point on card clothing.
Personnel in booth:
E. A. Snape, Jr., pres. & treas.
E. A. Snape, III, rep.
Norman F. Bush, rep.
Charles G. Stover, rep.
William F. Crowder, rep.
Quartered at: Catalina Motel

THE BOULIGNY CO. **826**

(See Coleman Co., Inc.)

BOWEN-HUNTER BOBBIN CO. **212**

Exhibiting: Speeder bobbins; automatic loom bobbins; warp spinning bobbins; cones; cores.
Personnel in booth:
E. A. Betrille
Quartered at: Poinsett Hotel
(See also Greenville Textile Supply Co.)

BRAINERD STEEL DIVISION **463**
Sharon Steel Corp.

BROWNING MFG. CO. **126**

Exhibiting: V-drives; chain drives; poly-V drives; paper pulleys; flexible couplings; rigid couplings; spinning frame drives; sprockets; chains; bearing units.
FIRST TIME SHOWN: Bearing units; Flatveyor chain and sprockets; Jaw couplings.
Personnel in booth:
L. L. Browning, pres.
T. Frank Jones, sales mgr.
E. A. Smith, asst. sales mgr.
H. B. Ives, salesman
Quartered at: Colonial Motel

THE BULLARD CLARK CO. **422**

Exhibiting: Complete line of Jacobs weaving supplies, including lug straps, check straps, strapping, pickers, picker sticks, dobby cords, anti-vibration pads and material.
FIRST TIME SHOWN: Jacobs Tiger Paw vibration pads and pad material.
Personnel in booth:
L. L. Froneberger, Jr., v. p.
Ralph M. Briggs, Jr., service engr.
Frank W. Beaver, service engr.
Doyl Stansell, service engr.
Quartered at: Hotel Greenville

BURLINGTON INDUSTRIES, INC. **432**

(See R. E. L. Holt, Jr., and Associates)

CAROLINA BELTING CO. **217**

Exhibiting: Heart-of-Hide box plate leather; Rusco Dacron harness strapping; Hay condenser tape.
FIRST TIME SHOWN: Rusco Dacron harness strapping.
Personnel in booth:
Charles F. Miller, sales mgr.
C. T. Allen, supt.
Earle Davis — Dean N. Van Dyke

CAROLINA RADIO SUPPLY CO., INC. **320**

CAROLINA SUPPLY CO. **230**

Exhibiting: Space for visitors.
Personnel in booth:
H. W. Harrison — B. F. Verdin
Claiborne Mardre — L. J. Farrow
B. E. Elletson — H. L. Stevenson
J. O. Crawford, Jr. — F. R. Casey

CARRIER CORP. **511**

A. B. CARTER, INC. **108**

Exhibiting: Boyce weavers' knotter; spinning and twisting travelers.
FIRST TIME SHOWN: "Supreme" travelers.
Personnel in booth:
R. A. Haynes, sales engr.
W. L. Rankin, sales engr.
J. R. Richie, sales engr.
P. O. Piercy, sales engr.
D. E. Phillips, sales engr.
J. K. Davis, sales engr.
B. R. Link, sales engr.
E. Haines Gregg, sec.
J. B. Carter, plant mgr.
Quartered at: Spanish Motel

CEN-TENNIAL COTTON GIN CO. **824**

Exhibiting: Opener-Cleaner for opening, cleaning, and blending of cotton in one process; Separator-Cleaner for discharging Opener-Cleaner; Aerator for preopening and cleaning the stock from the blending feeder; Opener-Blender for synthetics (all grades and staples); blending feeder for cotton and synthetics.
Personnel in booth:
S. K. Dimon — Allen Harmon
J. E. Brown

CHANDLER MACHINE CO. **359**

CHARLOTTE MANUFACTURING CO. **120**

Exhibiting: All types of card clothing; several types of flat clothing.
Personnel in booth:
R. G. Spratt, Jr., pres.
C. A. Spratt, sec. & treas.
A. D. Ennis, salesman
Paul W. Scercy, erector
R. P. Bullard, supt.
V. M. Whitley, erector

CLARK-CUTLER-McDERMOTT CO. **452**

(See Yeomans Textile Machinery Co.)

CLARK EQUIPMENT CO. **478**

Exhibiting: 2,000-lb electric lift truck; gas lift trucks of 3,000-, 4,000-, and 5,000-lb capacities, one equipped with a carton clamp and another a cotton boom.
FIRST TIME SHOWN: The 2,000-lb Electric Clarklift fork truck, known as the EC-20, which climbs a 10% grade fully loaded, provides constantly smooth acceleration from a standstill to full maximum speed, and permits full control of "inching" during delicate stacking operations.
Personnel in booth:
B. E. Phillips, sales mgr.
J. W. Kelly, elec. div. prod. mgr.
Glenn A. Christians, adv. mgr.
Frank Lyne, district mgr.

CLEMSON COLLEGE SCHOOL OF TEXTILES **127-A**

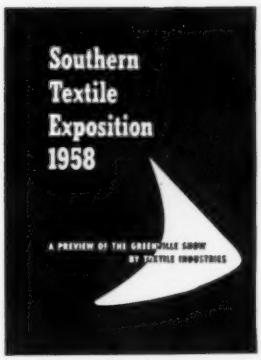
Exhibiting: A hosiery knitting machine.
Personnel in booth:
H. Betts Wilson, asst. prof. of textiles
J. C. Williams, knitting technician
F. J. Leard, technician

CLINTON CORN PROCESSING CO. **205**

Exhibiting: Space for visitors.
Personnel in booth:
H. C. Nickelson, asst. sales mgr.
A. C. Junge, sales mgr.
R. C. Rau, reg. mgr.
C. F. Cline, dist. mgr.
Grady Gilbert
Boyce Estes
J. A. Tomlin — E. F. Patterson
Glenn Henderson — R. A. Conzett

COATS & CLARK, INC. **221**

Exhibiting: Nylon travelers; nylon twister tape.
Personnel in booth:
R. H. Wilcox, mgr. Traveller div.
T. B. Farmer, sales engr.
M. H. Cranford, sales engr.
Quartered at: Wade Hampton Motel



COCKER MACHINE & FOUNDRY CO. **836**

Exhibiting: The latest models of high-speed slashing and warping equipment; cooking and storage kettles for size; creels.
FIRST TIME SHOWN: Newest high speed slasher head.
Personnel in booth:
John Cocker, III, pres.
John C. Bodansky, v.p. & sales engr.
Don Shepherd, salesman
Hoyt Cunningham, salesman
Jim Etheredge, salesman
Frank Suggs, chief engr.
Orville Davis, salesman
John McCoig, electrical engr.
Quartered at: Hotel Greenville

COLBY COOPERATIVE STARCH CO. **501**

(See Ira L. Griffin & Sons)

COLEMAN CO., INC. **826**

Exhibiting: Yale lift trucks, including Model GR52-2024 with cotton clamp, Model GPR52-2024 with forks, Model KG51TL-30 with Triplex Mast. Spinning frame showing Bouligny Tru-Draft system and umbrella creel.
FIRST TIME SHOWN: Yale Model KG51TL-30 fork truck with Triplex Mast having 83" over-all height and 180" fork lift; mast provides 50% more lift per over-all height of the mast and permits the truck to go into highway trailers and under low overheads with no sacrifice to high stacking ability.
Personnel in booth:
J. P. Coleman, pres.
E. A. Brigham, salesman
E. C. Campbell, salesman
J. H. Stephens, salesman
Lea Jones, salesman
Dick Marsh, salesman
John Collins, salesman
Joe Glenn, salesman
Fred Beaver, salesman

COLLINS BROTHERS MACHINE CO. **818**

(See Karl H. Inderfurth Co.)

THE COLSON CORP. **485**

(See Wrenn Bros.)

CONTINENTAL-DIAMOND FIBRE CORP. **465**

Exhibiting: New applications of various laminated plastic products, including bearings, gears, loom parts, and materials handling containers such as trucks, boxes, and roving cans.
Personnel in booth:
P. M. Grauer, vice-pres.
C. L. Simmons, Jr.
A. D. Gray — R. Little, Jr.
G. W. VonSeth — M. Blumenthal
C. B. Haynes — O. R. Thomas

COOK MACHINE CO. **322**

(See Riggs & Lombard)

CORN PRODUCTS SALES CO. **445**

Exhibiting: Space for visitors.
Personnel in booth:
A. N. McFarlane
A. A. Harden — H. L. Bailey
J. M. Coe — J. Alden Simpson
Herman Baker — Earl C. King
J. R. Hill — Gordon E. Wood
T. W. Blackwell — J. M. Adcock
W. R. Joyner — G. O. Greene

COTTON-McCAULEY & CO., INC. **833**

Exhibiting: In operation on a 36-spindle spinning frame these items: "Clean-

align'' center supported non-oiling top roll units; ''Cleanguide'' open type double apron support used with ''Cleanalign''; ''Easi-Creel'' bottom-supported single roving spinning creel; ''Flexing-Changeover'' complete spinning changeover with ball bearing bottom rolls, gearing, and equipped with ''Cleanalign'' and ''Cleanguide''; ''Climax'' ball bearing top rolls for spinning and roving; ''Cleandraft'' nylon non-lubricating top rolls for spinning and roving; top roll weight tester for spinning and roving.
FIRST TIME SHOWN: ''Cleanguide,'' a double apron support unit which is made a part of the ''Cleanalign'' saddle assembly.
Personnel in booth:
Frank H. Cotton, pres.
Raymond L. McCauley, vice-pres.
J. Bertram Howarth, sales agt.
Cecil A. McAbee, sales agt.
William L. Hinson, service rep.
Lewis C. Burgin, mgr. sou. shop
Richard K. Butler, gen. mgr., Machinecraft, Inc.
Quartered at: Catalina Hotel Court

CRABTREE TEXTILE ACCESSORIES, LTD.....321
Exhibiting: Thread guides; tension devices, including new ceramic types; nylon flyer blocks.
FIRST TIME SHOWN: The Universal Yarn Controller; the Telepathic Compensator.
Personnel in booth:
J. B. Ashworth, export mgr.

CROMPTON & KNOWLES CORP. 138
Exhibiting: A new narrow fabric needle loom; the new Model C-7 automatic bobbin changing dobby loom weaving a cotton dress goods fabric; the ''PaPa'' pick-and-pick automatic loom weaving a pick-and-pick worsted fabric; Fiberglass trucks and other Fiberglass products of Carl N. Beetle Plastics Corp. (C&K subsidiary), including a perforated truck for steaming filling yarn.
FIRST TIME SHOWN: Narrow fabric needle loom which makes two tapes simultaneously at a rate of 1400 sheds per minute per tape or a total of 2800 sheds or 5600 picks (2 per shed) per minute; the C-7 automatic bobbin changing dobby loom for fancy cotton, spun rayon, and dress goods mills, featuring a paper indicating dobby attachment, push-button stations at both ends of the loom for starting, stopping, and jogging; the ''PaPa'' pick-and-pick loom for worsted, upholstery, and elastic fabrics; Beetle Fiberglass trucks.
Personnel in booth:
Frederic W. Howe, Jr., pres.
Albert Palmer, v. p., research & eng.
Joseph F. Molloy, v. p. & gen. sales mgr.
Robert S. Schedin, chief engr.
John C. Irvin, sou. mgr.
Raymond A. Sharpe, field engr.
Lewis Burgess, sales rep.
H. C. Wingard, sales rep.
Quartered at: Poinsett Hotel

CROSS SALES & ENGINEERING CO.....349
Exhibiting: Mechanical power transmission equipment of several types, including variable speed drives, gear reducers, clutches, and flexible couplings.
Personnel in booth:
Wm. S. Cross, mgr.
Harvey Forrest, rep.
Don O. Tise, rep.
Harvey Hipp, rep.
Quartered at: Hotel Greenville

CURTIS & MARBLE MACHINE CO.....235
Exhibiting: B-H inspector for 50" goods (in operation); detacker for doubled woolen goods; ONB-SC tacking head for woolen goods; M-125 cloth folder for 50" goods (in operation); VSS selvage trimmer.
FIRST TIME SHOWN: B-H inspector, detacker, M-125 cloth folder, VSS selvage trimmer.
Personnel in booth:
Walter E. Hildick, pres.
Walter F. Woodward, v. p., sales
Jack Federline, sou. mgr.
Jack Stanley, sou. rep.

CUTLER-HAMMER, INC. 460

''DAILY NEWS RECORD''.....210

DARNELL CORP. 212
(See Greenville Textile Supply Co.)

DAVIS & FURBER MACHINE CO.....480
Exhibiting: A variable speed woolen spinning frame with magnetic clutch and electronic controls; sample card; condenser tapes and aprons; card and napper clothing being made; new 24-roll double-acting napper.
FIRST TIME SHOWN: Variable speed spinning frame; 24-roll double-acting napper.
Personnel in booth:
E. N. Atwood, sou. rep.
A. W. Reynolds — J. W. Wagoner
Louis Bussiere — W. M. Truslow
Jim Mansfield — J. H. Canady
Quartered at: Greenville & Poinsett Hotels

DAVIDSON-KENNEDY CO. 102-A

THE DAYTON RUBBER CO.....135
Exhibiting: Roll coverings; woolen and worsted cots; long draft aprons; slasher rolls; loop pickers; drop box pickers; check straps; lug straps; cog belts; V-belts.
Personnel in booth:
J. O. Cole, sales mgr, textile div.
E. L. Howell, field engr.
W. L. Morgan, sales engr.
K. K. Karns, sales engr.
T. W. Meighan, sales engr.
Claude Dunn, sales engr.
G. H. Newbern, sales engr.
H. H. Pearson, sales engr.
J. R. Young, adv. mgr., mech. goods div.
J. M. Hubbard, reg. Mgr., ind. div.
J. B. Montgomery, dist. mgr.
Quartered at: Poinsett Hotel

DENMAN TEXTILE RUBBER CO.....818
(See Karl H. Inderfurth)

DIEHL MANUFACTURING CO.....475
Exhibiting: A complete line of textile motors, including totally-enclosed and fan-cooled, totally-enclosed and non-ventilated, and open (drip-proof) designs; also special loom power transmitters, spinning frame motors, brake motors, and general purpose loom motors.
Personnel in booth:
A. R. Booth, v. p
E. F. Graham, dist. mgr.
A. J. Murphy, branch mgr.
C. P. Pickering
J. W. Wilson
J. McCall
Quartered at: Poinsett Hotel

THE DINSMORE MFG. CO.....234
(See Hollister-Moreland Co.)

DIXIE BEARINGS, INC. 416
Exhibiting: Anti-friction bearings for textile machinery; bronze bushings; nylon; OTC removal tools for gears and bearings; ''O'' rings; oil seals; and live centers.
Personnel in booth:
E. F. Brown, vice-pres.
J. L. Lammers, dist. mgr.
H. L. Cox, br. mgr.
Julian Phelps, br. mgr.
Lewis Disney, br. mgr.
Jim O'Connell, br. mgr.
H. L. Graham, store mgr.
Harold Watson, store mgr.
Quartered at: Colonial Court Motel

DIXON CORP. 817
Exhibiting: An operating spinning frame with the latest ''Extended Draft'' changeovers for both Casablancas and Duo-Roth spinning frames; cradles and cages.
FIRST TIME SHOWN: Duo-Roth Super-Saddle Guide, a new changeover that eliminates all top roll cap bars and lubrication; cradles and cages which have no metal surfaces that contact moving elements, thus eliminating cradle and steel roll wear.

Dixon Corp. continued
Personnel in booth:
Robert Rulon Miller, pres.
Warner H. Tabor, v. p. & chief engr.
John M. Feeley, sales mgr.
Floyd A. New
William B. Dunson
Robert K. Campbell

DOW CHEMICAL CO.....241
Textile Fibers Dept.

DODGE MANUFACTURING CORP. 802
Exhibiting: Flexidyne dry fluid individual card drive; Flexidyne dry fluid drives and clutches; Para-flex flexible cushion couplings; Torque-Arm speed reducers (shaft mounted); Taper-Lock sheaves, sprockets, couplings, and conveyor pulleys.
FIRST TIME SHOWN: New, improved variable pitch sheave, alone and in combination with Flexidyne dry fluid drive.
Personnel in booth:
George H. Wooley, Charlotte, dist. mgr.
W. Reynolds Barker, Atlanta, dist. mgr.
Paul E. Keb, rep.
Quartered at: Poinsett and Ottaray

GEORGE P. DORRIS CO. 106-A
(See Ira M. Valentine)

DRAPER CORP. 132
Exhibiting: A 50" high-speed X-2 model loom operating at speed of 165 ppm and weaving 48 x 44 spun rayon 15s filling and warp; loom will be equipped with all the latest improvements, including the automatic filling magazine which is designed to eliminate the job of battery filling and the Tru-Tension let-off which is designed to give a constant rate of yarn delivery while maintaining a uniform tension on the warp yarns. An 82" Model XP-2 sheeting loom will be operating at a speed of 153 ppm weaving 86 x 94 sheeting from 32.5 warp yarns 37 filling yarns; this loom will also be equipped with the automatic filling magazine, and with pin and sleeve type parallel, No. 4 automatic Bartlett let-off, the new K-A adjustable cotton type warp stop with serrated electrodes and indicator fingers, the new scissor-type thread cutter, and No. 14 shuttle check. A small miniature loom operating at slow speeds will provide visitors with the opportunity to closely examine improved parts and mechanisms in operation. Draper shuttles, bobbins, rings, spindles, and loom accessories.
Personnel in booth:
Thomas H. West, pres.
William K. Child, vice-pres.
Walter E. Soderberg, asst. vice-pres.
Joseph B. Fackson, ch. engr.
James H. Grant, adv. mgr.
Fred M. FitzGerald, dir. of research
Richard Childs, service
Albert A. Laferte, service

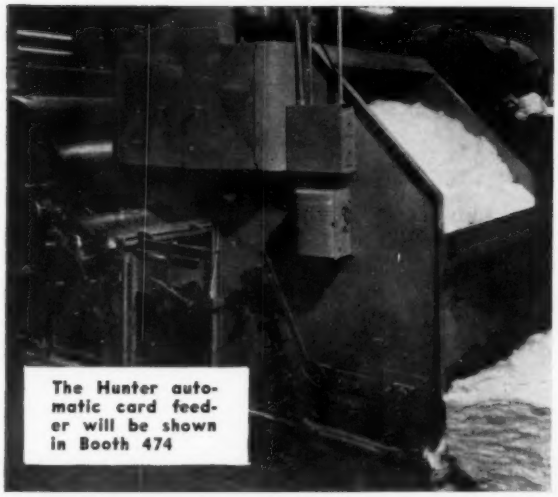
DRONSFIELD BROS. LTD. 476
Exhibiting: Flat grinding machine No. 241, for grinding revolving flats dismounted from the card; card bend grinding machine No. 260, for regrinding worn flexible bends; grinding machine No 270, for buffing synthetic covered spinning rolls; grinding drum; traverse wheel grinder; traverse grinder for side grinding or needle-pointing; bare cylinder grinder; card fillet mounting machine.
FIRST TIME SHOWN: Grinding Machine No. 270 for buffing synthetic covered spinning rolls; card bend grinding machine No. 260.
Personnel in booth:
James Dronsfield, joint managing director
Clifford Bradbury, director & export mgr.
Kenneth Sayce, erector.

ECLIPSE MACHINE DIV. 212
Bendix Aviation Corp.
Exhibiting: Two types of bobbin holders for spinning frame creels—Eclipse spring type and Bendix Spin Master toggle type.
Personnel in booth:
Roy K. Lobdell, Bendix sales
Quartered at: Poinsett Hotel
(See also Greenville Textile Supply Co.)

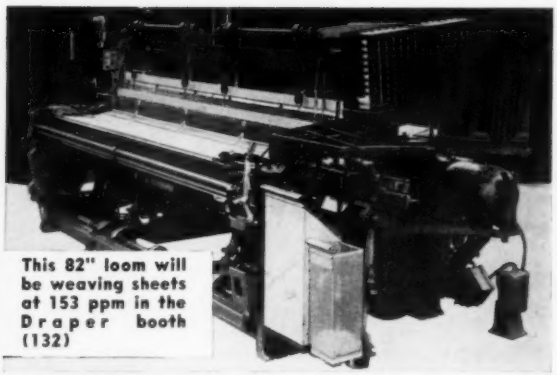
EDDA INTERNATIONAL CORP. 503
Exhibiting: Titan warp tying machines; Excelsior reed cleaning and polishing machines.
Personnel in booth:
B. Gudjonsson — H. A. Nagel
H. H. Thacker — E. L. Pullen
Quartered at: Poinsett Hotel

ENGINEERED PLASTICS, INC. 214

ERIEZ MANUFACTURING CO.....357
Exhibiting: Permanent non-electric mag-
Continued on page 138



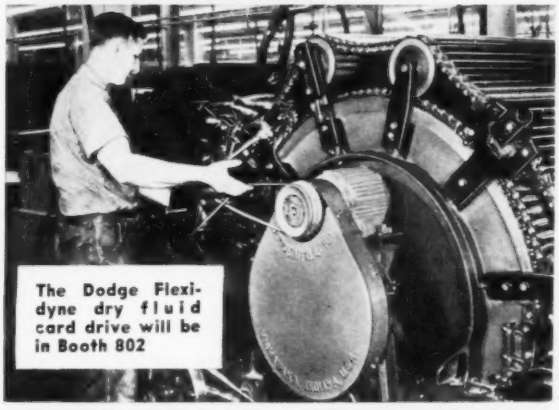
The Hunter automatic card feeder will be shown in Booth 474



This 82" loom will be weaving sheets at 153 ppm in the Draper booth (132)

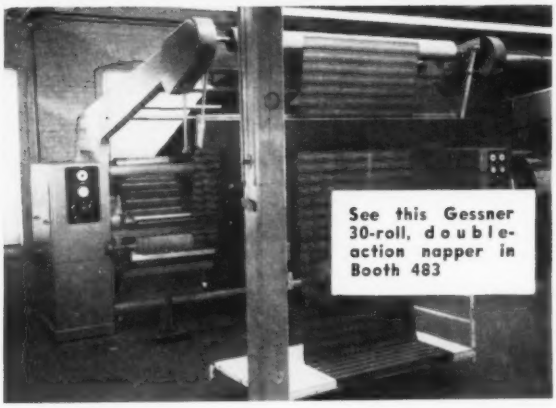
Warner & Swasey wide setover Pin Drafter. See it in Booth 834

Edda International will show the Titan warp tying unit in Booth 503

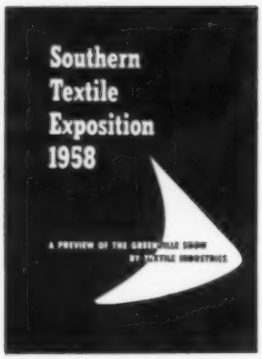


The Dodge Flexidyne dry fluid card drive will be in Booth 802

The Roberts M-1 spinning frame will be displayed in Booth 812



See this Gessner 30-roll, double-action napper in Booth 483



Eriez Manufacturing continued
netic separators, including magnetic humps for pneumatic lines and spiked apron magnets.
FIRST TIME SHOWN: Spiked apron magnets.
Personnel in booth:
Henry H. Hersey, sales rep.
Dean Thomas, sales rep.
R. A. Roosevelt, mkt. mgr.
Ned Hirt, adv. & prom. mgr.
Quartered at: Poinsett Ottaray

THE EXACT WEIGHT SCALE CO. 208
Exhibiting: Basic weight classifier for quality control; Model 4142 direct reading yarn count scale; Model 4104 Shadograph Micronaire testing scale; Model 4204 center tower Shadograph scale for weighing dyestuffs; Model 103 scale for cone and spool weight control; Model 4063 scale (platform), for weighing cans of roving.
FIRST TIME SHOWN: Basic Weight Classifier which is capable of proving weight accuracies in the range of 1 part in 5,000 to 1 part in 20,000. It checkweighs, classifies by weight, and through electronic controls can operate signals, actuate mechanisms, control processing machines, and record data.
Personnel in booth:
W. A. Scheurer, pres.
J. M. Orta, rep. J. W. Eakin, rep.
B. L. Price, rep. R. M. Rapp, rep.
T. L. Brewer, rep. W. J. Schieser, rep.

EXCEL, INC. 231
Exhibiting: Floating bottom truck; "Bonus Sweeper."
FIRST TIME SHOWN: The "Bonus Sweeper."
Personnel in booth:
N. W. Eurey, vice-pres.
Paul Eurey, vice-pres.
E. E. Eurey, eng rep.
Chas. Eurey, sec.
Quartered at: Hotel Greenville

EXTREMULTUS, INC. 272
Exhibiting: Belting.
Personnel in booth:
George L. Pellicer, gen. mgr.
George Chapman, mfr.'s rep.
William Bundy, distributor

FAFNIR BEARING CO. 247
Exhibiting: Ball bearings and ball-bearing power transmission units.
Personnel in booth:
H. C. King, mgr. ind. sales
G. A. Berg, engr. mgr.
N. B. Bagger, mgr. mkt. serv.
R. W. Parkinson, engr. dept.
C. W. Jones, Jr., adv. mgr.
J. Porter Golden, reg. mgr., Atlanta
J. V. Lansing, dist. mgr., Atlanta
C. M. Thomas, dist. mgr., Charlotte
Quartered at: Catalina Hotel Court

FAIRBANKS, MORSE & CO. 102
Exhibiting: Self-propelled lap dial scale and miscellaneous electric motors of conventional and Axial Air Gap design.
FIRST TIME SHOWN: Self-propelled lap scale which moves at the picker operator's signal, has a spot reading dial, and also has Printomatic unit that prints the weight of the lap being weighed on a ticket for the operator's record and at the same time records the weight on a tape that rolls up inside the printer.
Personnel in booth:
C. W. King, sales mgr.
E. W. Morgan, field engr.
W. L. Wilson, field engr.
Quartered at: Poinsett Hotel

FAULTLESS CASTER CORP. 470-B
Exhibiting: Casters and wheels.
FIRST TIME SHOWN: Casters with grease-sealed wheels and swivel bearing, and new style deep-drawn thread guards; new machine-faced semi-steel wheels.
Personnel in booth:
A. E. Lange, field sales mgr.
George T. McLeod, sales rep.
Thomas J. Bromeling, sales rep.

FENWAL INC. 360
(See W. K. Hile).

FIFE MANUFACTURING CO., INC. 308
Exhibiting: Demonstration rewinder showing two types of accurate, automatic cloth guiding — (1) shifting let-off roll laterally with automatically shiftable cradle, and (2) guiding cloth at an intermediate point between let-off and rewind with cambering roller method. Both operations will be performed simultaneously, yet independently, with Model MPA-2 multiple power unit.
Personnel in booth:
J. Fred Slaughter, v. p.-sales
Forrest C. Ames, agent
Warren A. Schilling, v. p.-sales
R. W. Powers, asst. to pres.
Quartered at: The Ottaray Hotel

FINNELL SYSTEM, INC. 110

FISHER MANUFACTURING CO. 314
Exhibiting: Recently developed items for handling warp and filling yarn.
Personnel in booth:
J. Glenn Fisher, mgr.
James N. Fisher, asst. mgr.
Robert N. Matthews, ind. mgr.
Neal Houston, rep.
Allan Matthews, rep.
J. W. Davis, rep.

FLETCHER WORKS 807
Exhibiting: The Duplex high-speed doubler-twister and jumbo package doubler-twister. Perfex high-speed skein reel.
FIRST TIME SHOWN: See above list.
Personnel in booth:
F. W. Warrington, sou. sales rep.
Eldon Stowell, sales mgr.
Edw. T. Taws, Sr., pres.
Edw. (Ted). Taws, Jr., vice-pres.

FOSTER MACHINE CO. 838
Exhibiting: Model 66 fully automatic filling bobbin winder; Model 202 automatic cone winder.
Personnel in booth:
W. C. Chisholm, pres.
E. C. Connor, v. p., sales mgr.
H. W. Ball, chief engr.
P. H. Farmer, asst. sales mgr.
E. P. Dodge, sales
G. W. Mallory, sales
E. H. Ely, sales
H. E. Hornbuckle, serv.

I. FOULDS AND SONS, INC. 229
(See Wilson F. Hurley)

THE FOXBORO CO. 405
Exhibiting: A cloth stretch recorder; 1/10" magnetic flow meter; Brookfield Viscometran viscometer with the Dynalog recorder measuring the viscosity of typical liquids; the Cyclelog Model 40 C-H controller which automatically duplicates time and temperature dyeing schedules; Model 40C-SD which automatically controls a semi-decating machine to provide uniformity of cloth treatment; a relative humidity recorder; a 13FA d/p cell transmitter for level measurements of viscous liquids such as size; Model 44 temperature transmitter; commonly used measuring elements such as a Redox cell, a conductivity cell, a Dewcell element, and a pH assembly.
FIRST TIME SHOWN: Instrument for recording cloth stretch—consisting of two type 16A pneumatic speed transmitters and a Model 54 Consotrol (pull out). recorder, it measures the speed of two rolls; any difference in the two recorded speed measurements is a measure of cloth stretch. The 1/10" magnetic flow meter which accurately measures difficult-to-meter fluids such as pigment dyes, hypochlorite, starch solutions, etc.
Personnel in booth:
W. H. Ridley, mgr. textile ind. div.
R. M. Glass, asst. mgr.
T. A. Jones, sales engr.
E. R. Tims, sales engr.
S. C. Alexander, Charlotte br. mgr.
F. H. Leathers, sales engr.
L. L. Hodges, sales engr.

GARLAND MANUFACTURING CO. 106
Exhibiting: Loom pickers, picker rod bunters, picker rod lubricant, loom leathers (checks, etc.); rawhide mallets, rawhide-faced hammers, nylon-faced hammers.
FIRST TIME SHOWN: Nylon-faced hammers.
Personnel in booth:
F. L. O'Neil, Sr.
F. L. O'Neil, Jr.
H. P. Garland, pres.
L. S. Garland, v. p. & treas.
P. A. Garland, sec.
Quartered at: Poinsett Hotel

GAST MFG. CORP. 318
(See L. W. Kinnear & Co.)

GASTON COUNTY DYEING MACHINE CO. 846

GATES RUBBER CO. 447
Exhibiting: Complete line of V-belt and other industrial drives; specialized belts for textile machinery drives; a spinning frame drive mock-up to demonstrate how spinning speed can be pre-selected by simply turning a dial; loom supplies, including loop pickers, lug straps, check straps, harness strapping, and roll covering.
Personnel in booth:
Robert O. Denslow, text. prod. div.
T. F. McCormish, ind. sales prom. mgr.
J. L. Luzader, dist. sales mgr.
Quartered at: Hotel Greenville

P. C. GAULT CO. 354
Exhibiting: Automatic dial telephone systems; music, paging, and locating systems.
Personnel in booth:
P. C. Gault, pres.
J. E. Marshall, service mgr.
Robert Cooper, rep.
Jack Meyers, Kellogg Switchboard
C. A. Butler, Kellogg Switchboard
Quartered at: Ottaray Hotel

GENERAL BOX CO. 324

GENERAL ELECTRIC CO. Apparatus Div. 116

GENERAL ELECTRIC CO. Lamp Div. 116
Exhibiting: Power-Groove fluorescent, high-bay incandescent reflector, and PAR spot and flood lamps.
Personnel in booth:
I. S. Meckly, sp. conventions & exhibits
Russell B. Chipman, dist. engr. Carolinas
Glenn E. Park, mgr. Carolinas sales dist.
Leonard J. Campbell, mgr., S.E. sales dist.
Dean N. Jenks, mgr., Va. sales dist.
E. A. Brown, com. and ind. sales spec.

GENERAL ENTERPRISES, INC. 337
Exhibiting: Ore-Lube Co. molybdenum disulfide oils and greases; Schachner Leather Co. check straps, binder leather, belting, and special treated spinning aprons; L. C. Smith Bobbin Works aluminum take-up bobbins, fiber-wood spinner bobbins, Bakelite bobbins, and tire cord twister bobbins.
FIRST TIME SHOWN: See above list.
Personnel in booth:
Charles G. Hinkle, pres.
I. S. Bull, vice-pres.
H. P. Brigham, sales mgr.
Barney Schachner, sales mgr. Schachner Leather Co

GEORGIA-CAROLINA OIL CO. 329
Exhibiting: Textile mill lubricants, including "Non-Melting" twister ring oils and greases, spindle oil, loom greases, and Ben Boy multi-purpose high heat grease.
Personnel in booth:
H. E. Coggin, sales mgr.
R. N. Coggin, salesman
G. W. Dobbins, salesman
Quartered at: Orville Court

DAVID GESSNER CO. 483
Exhibiting: The 30-roll Hi-Torc double-acting napper; the Blend-Matic napper roll grinder.
FIRST TIME SHOWN: See above list.
Personnel in booth:
Richard L. Bernard, salesman
Richard C. Franklin, v. p., sales mgr.
John P. Franklin, pres.-treas.
Richard A. Herard, salesman
Paul F. Riedl
Quartered at: Hotel Greenville

GIFU KEIKI CO. 245
(See Edward S. Rudnick, Representatives)

GILMAN PAINT & VARNISH CO. 450
Exhibiting: Paints, varnishes, floor finishes, chemical resistant coatings.
Personnel in booth:
R. C. Adams L. C. Teeters

Gilman Paint and Varnish continued
R. B. Olney — J. M. Isom
W. P. Dobson — C. H. Dodson
Quartered at: Hotel Greenville

GLOVER WOOD TURNING CO., INC......432
(See R. E. L. Holt, Jr., and Associates, Inc.)

GODO SHUTTLE CO. 245
(See Edward L. Rudnick, Representatives)

GOLDEN'S FOUNDRY & MACHINE CO......268
Exhibiting: Textile ball bearing applications; grey iron castings; power transmission equipment.
Personnel in booth:
J. T. Boyd, vice-pres.
J. L. Grantham, engr.
Robert K. Ballard, sales
Jack Kibby, sales
Quartered at: Gardenia Motor Court

GOSSETT MACHINE WORKS, INC......233

GEORGE A. GOULSTON CO. 331
Exhibiting: Complete line of fiber lubricants for woolen, worsted, and synthetic yarns.
Personnel in booth:
George A. Goulston, pres.
Ben Goulston, vice-pres.
Arnold Goulston, sec.
Harold Miller, mgr.
Quartered at: Hotel Greenville

GOWER MANUFACTURING CO. 506
Exhibiting: Cloth storage racks; conveyor systems.
Personnel in booth:
Paul C. Aughtry, sales mgr.
Charles Ried, salesman
R. Hunter Park, chief engr.

GRATON & KNIGHT CO., INC. 507
Exhibiting: Leather and Nycor belting; loom leathers, including check straps, Boxmaster and Boxing binder leathers, pickers, spindle bumper straps; aprons and tapes
Personnel in booth:
John G. Henrickson, vice-pres. sales
W. M. Wills, rep.
Quartered at: Poinsett and Ottaray

GREENVILLE TEXTILE SUPPLY CO. 212
Exhibiting: Products of the following suppliers to the textile industry: Bowen-Hunter Bobbin Co.; Lestershire Spool Div., National Vulcanized Fibre Co.; Darnell Corp.; American Pulley Co.; Eclipse Machine Div., Bendix Aviation Corp.; W. T. Lane & Brothers, Inc.; Pioneer Heddle & Reed Co.; Sunray Co. To see what each of these companies is exhibiting, refer to company name in alphabetical listing.
Personnel in booth:
J. R. Foster, pres.
D. C. Neese, vice-pres.
H. Z. Graham, vice-pres.
G. H. Bachalor — Wm. L. Brigham
C. L. Jones, Jr. — E. W. Ware
W. Fields — M. Woods
C. G. Price — C. Q. Mason
C. Hathcock — J. T. Mason
G. H. Reynolds — J. Poston
B. C. Caldwell — H. Jordan
C. F. Roberts — R. B. Dorman, Jr.
T. G. Tyson — R. E. Stephens
T. M. Bailey — G. Brannock

IRA L. GRIFFIN & SONS 501
Exhibiting: A complete slasher utilizing the following: Two Griffin Size Applicators operating in tandem, nine-cylinder drying section with 30" diameter cans, improved front end, creel section, Westinghouse Multi-Motor Drive, Brown Moist-O-Graph. OK corn starch products of The Hubinger Co.
FIRST TIME SHOWN: New Model SA1-57 Griffin Size Applicator; cylinder drying section.
Personnel in booth:
Ira Griffin, Jr., partner
Wm. A. Griffin, partner
Garvis E. Orr, salesman
J. R. Myers, S. E. mgr., Hubinger
Carl F. Merritt, salesman
Quartered at: Poinsett and Greenville Hotels

GULF OIL CORP. 211
Exhibiting: Gulfspin spindle oil, Gulfcrown Grease E. P.
FIRST TIME SHOWN: Gulfcrown Grease E. P., a lithium base, heavy-duty grease for extreme pressure applications, electric motor bearings, fan and pump bearings, and grease lubricating systems; recommended especially for loom gears and other parts subject to high pressures and shock loads and finishing plant machinery where resistance to water and heat are needed.
Personnel in booth:
A. O. Buntin, div. mgr. direct sales
J. H. Hooten, supv. prod. application
H. N. Hill, ind. & transp. marketer
A. M. Wright, prod. appl. engr.
J. E. Coleman, prod. appl. engr.
H. B. Minick, Jr., staff sales engr.
C. L. Thomas, Jr., staff sales engr.
S. E. Owen, Jr., sales engr.
C. T. Timmons, sales engr.

HARTFORD MACHINE SCREW CO......453
Exhibiting: Ball bearing spindles for spinning twisting, rubber covering; autolatching bobbin hangers for spinning frame creels.
FIRST TIME SHOWN: Filling spindle eliminating acorn of whorl; rubber covering spindle.
Personnel in booth:
N. D. Kennedy, chief engr.
A. M. Newell, sales engr.
W. G. Snowdon, sales engr.
J. O. Howard, sales engr.
A. R. Andrews, mgr.
Quartered at: Poinsett Hotel

HATCHER SALES CO., INC. 365
Exhibiting: Stanley Magic Door controls.
Personnel in booth:
E. H. Hatcher
J. T. Cobb
Quartered at: The Ottaray

DONALD HAWTHORNE, REPRESENTATIVE..274

HAYES INDUSTRIES, INC. 435
Exhibiting: 38" section beam in motion; a 30" x 42" tricot beam for the latest type knitting machines.
FIRST TIME SHOWN: 30" x 42" tricot beam.
Personnel in booth:
Wm. H. Maxson
Richard D. Richards
Warren D. Sharp
Quartered at: Poinsett & Ottaray Hotels

HEANY INDUSTRIAL CERAMIC CORP......121
Exhibiting: Ceramic thread guides and tension devices.
Personnel in booth:
A. O. Pieper, pres.
Quartered at: Poinsett Hotel

HERR MFG. CO., INC. 267
Exhibiting: Complete line of conical rings for spinning and twisting; flyers for all types of uptwisting.
FIRST TIME SHOWN: "M" type conical ring featuring seam lubrication.
Personnel in booth:
Hyatt B. Atwood, pres.
William W. Woodard, tech. engr.
Robert M. Leach, tech. engr.
James McLean, engr.
Wm. K. Anderson, Jr.

W. K. HILE CO. 360
Exhibiting: Electric temperature controls and multi-point monitoring systems by Fenwal, Inc.; electric heating elements by Hotwatt, Inc.
Personnel in booth:
W. K. Hile, sales engr.
C. P. Maloney, Jr., sales engr.
Quartered at: Poinsett Hotel

HILLYARD CHEMICAL CO. 305
Exhibiting: Floor finishing and maintenance materials and machines.
Personnel in booth:
Wm. A. Schmaltz, sales mgr.

HOLLISTER-MORELAND CO., INC. 234
Exhibiting: Merrow sewing machines; American Safety Table Co. sewing tables; Dinsmore railway and stands and allied equipment.
FIRST TIME SHOWN: Merrow Style M automatic lubricating machine.
Personnel in booth:
R. B. Moreland, pres.
O. S. Bachelor, vice-pres.
J. B. Moreland, sec.
Lane C. Burris, salesman
Warren G. Martin, Jr., salesman
Jack Washburn, engr., Merrow Mach.
Harry Duke, treas. Dinsmore Mfg.
Quartered at: Poinsett Hotel and Collins Motel

R. E. L. HOLT, JR., & ASSOC., INC. 432
Exhibiting: Nylon spinning tapes of Burlington Narrow Fabrics Co.; Hayes Industries aluminum beams; Mitchell-Bissell porcelain thread guides; spinner belts and loom strapping by Ton-Tex; picker sticks by Norris Brothers; dobby cords and chain bars by Rice Dobby Chain Co.; shuttle fur by B. Snowiss Fur Co.; loom bobbins by Glover Wood Turning Co., Inc.
Personnel in booth:
R. E. L. Holt, Jr. — Floyd A. New

R. E. L. Holt continued
David R. Sellars — John P. Norman
James G. Skinner — W. Brad Dunson

HOTWATT, INC. 360
Exhibiting: Cartridge heating elements.
(See W. K. Hile Co.)

HOWARD BROS. MFG. CO. 252
Exhibiting: Card clothing; napper clothing; hand stripping cards; hand sampling cards.
Personnel in booth:
E. J. Lawrence — D. A. Spencer
T. J. Jackson — H. C. Coley
H. H. Suggs — N. A. Mitchell
F. J. Campbell — C. A. Haynes
W. W. Butterworth

HUBINGER CO. 501
(See Ira L. Griffin & Sons)

JAMES HUNTER, INC. 474
Exhibiting: Fiber Meter blending system for cotton and synthetics; Fiber Meter blending system with new automatic mixing chamber; hydraulic Checkmaster for looms; parallel motion for looms; bobbin holders; automatic weighing picker feeds; Mathews conveyor system; Agastat pneumatic timing controls; Fuller tint pumps; automatic weighing card feeds; Thomas Leyland expander bars; Thomas Leyland Flex Spools; time delay monitor device.
FIRST TIME SHOWN: Automatic mixing chamber for Fiber Meter blending system; blending equipment for nonwovens; Time Delay Monitor device which is designed to ride through momentary dip in voltage, or failure due to lightning, or other causes that allow magnetic coils to drop out.
Personnel in booth:
Wm. F. Leinweber, Jr., v. p.
A. V. Moody, sales mgr.
J. C. Whitehurst, rep.
J. T. White, rep.
H. A. Brown, Jr., rep.
W. B. Estes, rep.
D. B. Powers, rep.
Quartered at: Poinsett Hotel

WILSON F. HURLEY.....229
Exhibiting: Aluminum barrel jack spools, wooden head twister bobbins, card room bobbins, and automatic loom bobbins by M. H. Parks Co.; Tex Flex nylon core belting, featuring licker-in, doffer, and cone belts; M-B Products pneumatic roll pickers, air filters, lubricators, and pressure regulators; Bancroft belting Co. leather loom strapping.
FIRST TIME SHOWN: Tex Flex nylon core belting.
Personnel in booth:
W. F. Hurley
I. Manheimer, pres. M-B Prod.
R. C. Hurley, rep.
J. W. Davis, rep.

HYATT BEARINGS DIV. 104
General Motors Corp.
Exhibiting: A complete line of roller bearings for textile mill applications.
Personnel in booth:
E. P. O'Neill, sales mgr.
C. C. Wardell, adv. mgr.
E. Maurushat
G. Baxley, sales engr.
G. A. Straus, sales engr.
Quartered at: Poinsett Hotel

HYSTER CO. 485
(See Wrenn Bros.)

IDEAL INDUSTRIES, INC. 239
Exhibiting: High-speed drawing frames equipped with vacuum cleaning system, individual drive, and electro-magnetic clutch, ball-bearing coiler systems.
Personnel in booth:
Albert S. Roebuck, sales mgr.
Frank B. McDonald, salesman
E. Sherwood Livingston, salesman
Walter L. Whitley, salesman
Quartered at: University Park Motel

IDEAL MACHINE SHOPS, INC. 239
Exhibiting: Flyers, including a flyer converted to a larger size, flyer pressers, and flyer finishes; roving spindles, including induction-hardened new spindles and old spindles which have been repaired; roving bolster repairs; rebuilt cap bar nebs; rebuilt roving and spinning top rolls; new induction-hardened lap sticks; adapter spindle conversion for spinning and twisting; induction-hardened lifting rods; new bushings for lifter rods; new gears; new twister and spinning spindles.
Personnel in booth:
Elvin F. Robinson, sales mgr.
James A. Rayfield, tech. sales rep.
Morgan Ruppe, tech. sales rep.
Continued on page 142

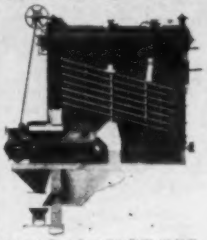
SOUTHERN TEXTILE EXPOSITION NUMBER

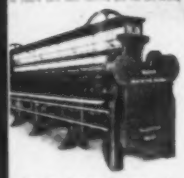
COTTON

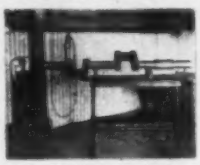
OCTOBER, 1915

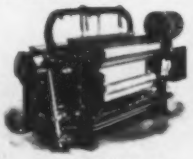
CLIPPINGS! From TI's Preview of the 1ST Southern Textile Exposition Nov. 2-6, 1915

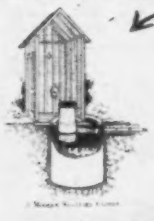
Dividend Payers to Be Shown at Southern Textile Exposition

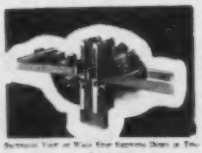












We'll Meet You at the Big Southern Textile Exposition

Greenville, S. C., November 2nd-6th

More than 150 exhibits will be shown, including the newest improvements in textile machinery and equipment; exhibits of cotton fabrics and finished products; exhibits from textile colleges and welfare departments; government exhibits of fabrics from South America.

Tuesday, Nov. 2nd—Presidents' and Treasurers' Day.

Wednesday, Nov. 3rd—College Day.

Thursday, Nov. 4th
Friday, Nov. 5th
Saturday, Nov. 6th
Southern Textile Association Days.

Three brass bands will be in attendance during the week. The entertainment committee has arranged a number of unique attractions and surprises.

The program committee will list a number of interesting speakers.

All railroads will run excursion trains and give special round trip rates.

Officials:—Send your men.

Members:—Bring your wives with you

Make your arrangements *now*.

Cramer System of Air Conditioning

STUART W. CRAMER

New York CHARLOTTE, N. C Boston

U S BOBBIN AND SHUTTLE COMPANY

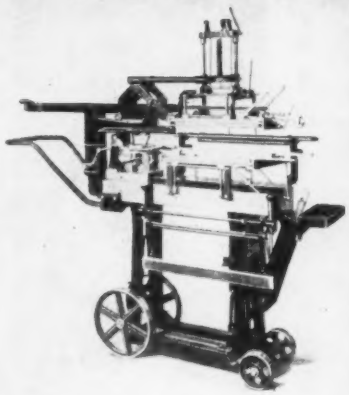
57 Eddy Street, PROVIDENCE, R. I.

MANUFACTURERS OF

SHUTTLES

See our Exhibit in Section 209A 209B at Southern Textile Exposition, Greenville, S. C., November 2-6, 1915

Warp Tying Machines



MODEL K

We shall have one of these machines in operation at the Southern Textile Exposition

BARBER-COLMAN COMPANY

Greenville, S. C. Rockford, Ill. Boston, Mass

EVERY DARK CORNER COSTS YOU MONEY

It may be a corner where your workmen can't see well enough to get the maximum production.

Or it may be a corner where some day a workman will, for lack of sufficient light, run into a moving mechanism with disastrous results.

Or it may be a corner where dirt and refuse accumulate unseen to increase your fire risk and make your plant unsanitary.

No matter which, every corner is expensive—it pays to have good light.

Our booklet on Industrial Lighting shows how to light every corner.

WESTINGHOUSE MAZDA

Westinghouse Lamp Company

SCOTT TESTERS

FOR DETERMINING STRENGTH AND ELONGATION OF YARN, CLOTH, TIRE FABRIC, RUBBER, Etc.

UNIVERSAL TESTER Built Expressly for THE U. S. NAVY

DEAD WEIGHT NO SPRINGS

SOME USERS OF SCOTT TESTERS.

Write for Catalog.

STOCK MACHINES SOLD ON APPROVAL

HENRY L. SCOTT & CO.

223-233 Eddy St., PROVIDENCE, R. I.

SACO-LOWELL SHOPS

IMPROVED TEXTILE MACHINERY

invite your inspection of their exhibit at the

SOUTHERN TEXTILE EXPOSITION

to be held at

GREENVILLE, S. C., NOVEMBER 2-6

SECTIONS 520 TO 526

SPECIAL ATTENTION IS CALLED TO
FOUR COILER WASTE CARD
NEW MODEL BOBBIN SPOOLER
IMPROVED CAMLESS WINDER

In addition to this machinery, shown in operation, there will also be on display special devices and features of equipment, including Positive Expansion Combs for Slashers and Warpers, Hank Clocks of tamper-proof design, Card Belt Shippers, various types of light and heavy Spinning and Twister spindles, etc.

SHOPS

BIDDEFORD, ME. LOWELL, MASS. NEWTON UPPER FALLS, MASS

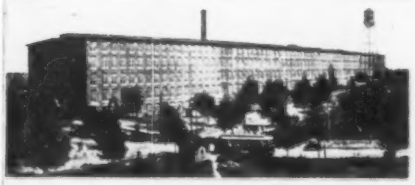
EXECUTIVE OFFICES

BOSTON, MASS.

ROGERS W. DAVIS, SOUTHERN AGENT CHARLOTTE, N. C

THE WOODSIDE COTTON MILLS

GREENVILLE, S. C.



This print cloth mill, beginning with an installation of 10,000 spindles, has extended from time to time until it now has a capacity of 112,000 spindles, the largest mill under one roof in the world.

The mill building is partly a four-story and partly a five-story structure. The spinning process is on the top floor, the preparatory on the third floor, and weaving on the first and second floors.

J. E. SIRRINE

Mill Engineer and Architect

GREENVILLE, S. C.

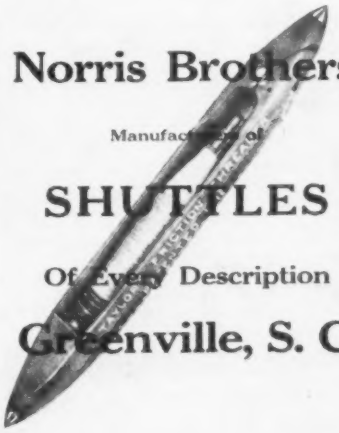
Norris Brothers

Manufacturers of

SHUTTLES

Of Every Description

Greenville, S. C.



COTTON BALING MACHINE With Calender Rolling Machine

Cloth Room Machinery

For all varieties of cotton fabrics

Machines for Inspecting, Trimming, Sewing, Brushing, Shearing, Singeing, Measuring, Folding, Doubling, Rolling, Winding, Trade-marking, etc., etc.

Curtis & Marble Machine Co.

WORCESTER, MASS.

Also exclusive agents for Joseph L. Schofield of Providence, R. I.

COTTON TIE BUCKLES

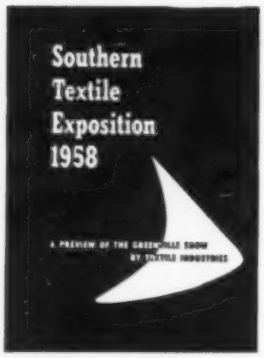
Ask us about our No. 1 Special Improved D Buckle and our No. 1 Special Flagon Buckle. You will want them.

Wrought Washers Baling Buckles
Steel Stampings
of All Kinds

WRITE US FOR SAMPLES AND PRICES.

HUBBARD & COMPANY

PITTSBURGH, Pa.



Ideal Machine Shops continued
John W. Long, Jr., tech. sales rep.
Quartered at: University Park Motel

KARL H. INDERFURTH CO., INC. 818
Exhibiting: Loom supplies made by Denman Textile Rubber Co., including the premium light colored picker and the Pioneer drop box picker, plastic loop pickers, and rubber loom parts such as lug straps, sweep sticks, bumpers, etc. A Collins Bros. Machine Co. 16-spindle twister with 8" ring and 11" traverse equipped with stop spindles and individual feed roll arrangements to prevent drop ply and roller laps. Metlon Corp. metallic yarns.
Personnel in booth:
Karl H. Inderfurth
John Brown, Denman
Hayden C. Cobb, Jr., Metlon
Henry Collins, Collins Bros.
Nelson Collins, Collins Bros.

INDUSTRIAL COATINGS, INC. 219

THE INDUSTRIAL DRYER CORP. 469
Exhibiting: The "H-W" conditioner, arranged to automatically pre-heat, condition, dry or exhaust for twist setting, shrinking, lofting, and regain.
Personnel in booth:
Philip H. Friend, sou. sales rep.
F. W. Caesar, sales mgr.

INTERNATIONAL BUSINESS MACHINE CORP. 464

INTERNATIONAL CORRESPONDENCE SCHOOLS 336
Exhibiting: Map showing firms in U. S. using ICS training materials and methods; instruction texts covering textile and other subjects; examples of students' work; and various types of ICS course and industrial training literature.
Personnel in booth:
U. E. Akins, dir. sou. dept.
W. Frank Eckard, supt. Columbia div.
Raymond C. Gagnon, dir. school of textiles
Quartered at: Cleveland Hotel, Spartanburg

IZUMI BOBBIN CO. 245
(See Edward S. Rudnick, Representatives)

E. H. JACOBS 422
Southern div., Charlotte, N. C.
Northern div., Danielson, Conn.
(See Bullard Clark Co.)

JENKINS BROS. 457

THE JOHNSON CORP. 441
Exhibiting: A complete line of Type "S" self-supporting rotary pressure joints with assembly plates and syphon elbows. A complete line of Type "L-JSP" (rod-supported) rotary pressure joints with assembly plates and syphon elbows. Small operating models on which will be installed the Type "SBP" self-supporting and Type "L-JSP" rotary pressure joints with assembly plates and syphon elbows. Solenoid operated valves for automatic or remote flow control of liquids and steam up to 400 F. Instant steam water heater. Compressed air separators and after-coolers.
Personnel in booth:
Ralph W. Gotschall, gen. sales mgr.
James E. Dal Ponte
T. H. Abbey, Sr.

Johnson Corp. continued
T. H. Abbey, Jr.
Wm. B. Abbey
Bill Lee
Howard Duvall, Jr.
John Q. Marshall
Joe Davis
Ross Dickey

JOHNS-MANVILLE SALES CORP. 228
Dutch Brand div.
Exhibiting: Slasher tapes, masking tapes, cloth tapes, strapping tape.
Personnel in booth:
C. G. Geiger, merch. mgr.
W. H. Hobelsberger, reg. sales mgr.
A. E. Thomas, salesman
L. R. Potts, salesman
J. L. Lansa, commodity mgr.

THE KEEVER STARCH CO. 407
Exhibiting: Space for visitors.
Personnel in booth:
James F. Kurtz, vice-pres.
A. S. Fulford, sec.
Chas. Switzer, vice-pres.
R. L. High, research
F. M. Wallas, asst. mgr.
R. F. Guill, rep.
C. B. Phillips, rep.
S. S. Rice, rep.
T. S. Richbourg, rep.

WILLIAM KENYON & SONS, INC. 326
Exhibiting: Kennylbond spun nylon spinning and twister tapes; Kenyon tape bonding machines; Kenbrake, a new kind of spindle brake.
FIRST TIME SHOWN: Kenbrake—a method of stopping a spindle while the tape continues to run at the same speed; this is possible because of a unique arrangement of a revolving disc and free running whorl combined.
Personnel in booth:
W. A. Kenyon, vice-pres.
O. E. Butcher, treas.
Quartered at: King's Motel

KEYSTONE LUBRICATING CO. 402
Exhibiting: Loom gear grease applied with a special portable lubricator; No. 49 high temperature lubricant for dryers, air compressors, and pumps; No. 96 dobby head oil; No. 505 winder lubricant; No. 44 ball and roller bearing grease; RT (relief type) fitting used to replace relief plugs in motor and pillow block bearings; prevents overlubrication.
Personnel in booth:
W. F. Boger
W. E. Wood
R. M. Goss
N. W. Benjamin

KIDDE TEXTILE MACH'Y CORP. 516
Exhibiting: Combination tricot warper for any of the following beams: one 50" or one 42" or two 21" or two 25". Compensating tension devices and instruments.
Personnel in booth:
W. J. Behr, Jr., pres.
H. W. Ruddick, vice-pres.
O. C. Biegel
E. L. Herbert
J. H. Fleming
A. W. Post
Quartered at: Colonial Court Hotel

L. W. KINNEAR & CO. 318
Exhibiting: Air line filters, pressure regulators, lubricators, and Micro-Fog bearing lubrication of C. A. Norgren Co.; hand- and solenoid-operater air valves of Velvair Corp.; air motors, vacuum pumps, air compressors of Gast Mfg. Corp.
FIRST TIME SHOWN: All of the above items.
Personnel in booth:
L. W. Kinnear, pres.
J. P. Majette, sales mgr.
Quartered at: Gardenia Motel, Piedmont, S. C.

KIRKMAN & DIXON MACH'Y CO. 201
Exhibiting: K & D waste machine (laboratory model); photographs and literature on the SRRL Opener-Cleaner.
FIRST TIME SHOWN: Photos of the SRRL Opener-Cleaner.
Personnel in booth:
W. J. Langley, rep.
C. M. Dixon, rep.

LAMBETH ROPE CORP. 222

W. T. LANE & BROS., INC. 212
Exhibiting: Canvas mill baskets and trucks.
FIRST TIME SHOWN: Trucks and baskets made of colored canvas.
Personnel in booth:
R. T. Lane, sec.
J. M. Baker, sales rep.
(See also Greenville Textile Supply Co.)

LENKOTEX CO., INC. 118
Exhibiting: Spintex roller bearing spindles for spinning and twisting; Mann rings for spinning and twisting; Saccardo paper tubes for spinning and twisting; Harnisch loom temples; Lucke pin setting machine; SSS comb and gill pins.
FIRST TIME SHOWN: Spintex "Universal" roller bearing spindle with internal doffer guard; Mann rings with plastic protective coating; Saccardo paper tubes; Harnisch loom temples with nylon bushings and flanges; Lucke pin setting machine.
Personnel in booth:
V. Lindner, sec.

LINCOLN ENGINEERING CO. 510
Exhibiting: Electrically and mechanically controlled Ram Pump centralized lubrication systems for textile machinery; actual operating installations on looms and frames. New "Electro-Luber" automatic centralized system. Also, complete line of other types of lubricating devices and systems.
FIRST TIME SHOWN: See above list.
Personnel in booth:
Robert Cream, sales mgr.
Robert Doss, sales engr.
Clarence Lane, sales engr.
Ben S. Davis, div. mgr.
Kenneth Boyer, sales engr.

LINDLY & CO., INC. 813
Exhibiting: A complete small scale creel and warper to show the firm's quality control equipment in operation, including the "Electrotense" for applying uniform tension to yarn, Automatic Yarn inspector and Automatic End Break Detector. The Photo-Scanner for knitting machines will be in operation on a piece of tricot cloth containing a typical defect. An endless belt of yarn, containing short and long defects, running continuously through the Automatic Spun Yarn Inspector will show how this instrument counts knots, neps, and small defects up to a selected length and operates a stop motion for faults beyond that length. Also in operation will be the Lind-Recorder which makes a permanent record of "on and off" situations, with respect to time, of a variety of machines.
Personnel in booth:
D. Mindheim, ch. engr.
C. Elbin, field engr.
Quartered at: Colonial Court Hotel

H. F. LIVERMORE CORP. 109-A

LIVINGSTON & HAVEN, INC. 366
Exhibiting: Long pneumatic lap control system; Oil-Dyne hydraulic unit; Westinghouse Air Brake Co. pneumatic cylinders, controls, and valves.
FIRST TIME SHOWN: See above list.
Personnel in booth:
A. C. Flint, vice-pres.
M. D. Haven, pres.
W. V. Walkinshaw, Westinghouse Airbrake
R. F. Hanley, eastern sales mgr. Westinghouse Airbrake
Quartered at: Ottaray

LIVINGSTONE COATING CORP. 311
Exhibiting: Loom filling grates, duct work, blower wheels, fume exhaust fans, tanks, etc., which have been coated with the various types of coatings available from this firm (Teflon, plasticols, vinyls, baked and cold set phenolics, Hypalon, cold galvanizing, etc.)
FIRST TIME SHOWN: Plastisols, neoprenes, and fluorocarbon coatings.
Personnel in booth:
Stan Livingstone, pres.
Albert B. Small, mgr.
Quartered at: Colonial Court Hotel

LOCKWOOD GREENE ENGINEERS, INC. 207
Exhibiting: Photographs of new textile plants on which this firm served as architects and engineers.
Personnel in booth:
H. M. Rogers, vice-pres.
J. C. Hipp, ch. engr.
L. S. Booth
M. J. O'Brien
T. O. Ott
E. T. Sweet
M. V. Gelders
J. A. Gillespie
J. Z. Robinette
M. L. Boggs
J. E. Mickler

LOUDEN MACHINERY CO. 477
Exhibiting: Ceiling cleaners, monorail and cranes, material handling equipment.
Personnel in booth:
Wilbur Mayer, sales mgr.
Brice Gamble, adv. mgr.
John T. Fulwiler, Jr., dist. rep.
E. R. Zane, Jr., dist. rep.
Hugh Black, dist. rep.
Ralph Berry, dist. rep.

HUBBARD & COMPANY

Louden Machinery continued
O. M. Jones, dist. rep.
Quartered at: Hotel Greenville

M. B. PRODUCTS **229**
(See Wilson F. Hurley)

MacBETH CORP. **113**
(See Slaughter Machinery Corp.)

MANTON-GAULIN MFG. CO. **115**
(See The Textile Shops)

MARCHANT CALCULATORS DIV. **347**
Smith-Corona Marchant, Inc.
Exhibiting: The Deci-Magic automatic decimals model calculator; a new fully-electrified 10-key adding machine; full line of automatic and semi-automatic electric desk calculators.
FIRST TIME SHOWN: A new 10-key adding machine which provides automatic single spacing totals and sub-totals, direct subtraction at the touch of a live key; and true credit balance.
Personnel in booth:
R. B. Pollock, agency mgr.
A. T. Davis, Atlantic area dir.

MARQUETTE DIVISION **264**
Curtiss-Wright Corp.
Exhibiting: Spindles, including top drive, warp, filling, and cable and ply twister; Precisionspring clutches.
FIRST TIME SHOWN: Precisionspring clutches.
Personnel in booth:
O. S. Sikes, asst. prod. mgr. textiles
J. W. Griggs, prod. mgr. textiles
R. M. Turner
C. H. White
W. P. Russell
Quartered at: Greenville Hotel

MARSH STENCIL MACHINE CO. **355**
Exhibiting: Hand-operated and electric stencil cutting machines; electric Dial-Taper and Twin-Taper machines for dispensing moistened gum tape; fountain stencil brushes, stencil ink, oiled stencil board; felt-point pens, felt-tip markers, inks, and extra felt tips for pens and markers.
FIRST TIME SHOWN: The Marsh Rolmark.
Personnel in booth:
E. J. Marsh, sec.
E. G. Krause, sales engr.
Earl Lorenz, sales & service rep.

MARSHALL & WILLIAMS CORP. **249**
Exhibiting: A new winder; a light-duty tenter frame; complete line of tenter clips; complete range of drive units for tenter frames.
FIRST TIME SHOWN: A new type of winder and a new kind of tenter clip.
Personnel in booth:
Richmond Viall, pres.
John C. Nash, vice-pres.
Fred H. Land, mgr.
James A. Love, export mgr.
Albert J. Marshall, sales engr.
Edward E. Ford, sales engr.
William C. Brown, sales engr.
Fred Hyatt, sales engr.

MASTER ELECTRIC CO. **144**
(See Reliance Electric & Engineering Co.)

McDONOUGH POWER EQUIPMENT, INC. **327**
Exhibiting: 14", 15", 16", and 18" Universal card coilers for all makes of cards.
Personnel in booth:
J. L. Sinback, vice-pres.
W. A. Wallace, sales rep.
Quartered at: Holiday Inn

MEADOWS MFG. CO. **136**
Exhibiting: Extremely large packages of yarn; high-speed, anti-friction twister frames; anti-friction spindles; twister accessories; spinning accessories.
FIRST TIME SHOWN: The high-speed, anti-friction twister and extremely large packages of yarn.
E. D. Meadows, pres.
Personnel in booth:
J. C. Martin, v. p. & sales mgr.
J. R. Caldwell, ch. engr.
A. F. Gandy, engr.
W. S. Coleman, salesman
G. P. Stanley, salesman
B. J. Wright, sales engr.
Quartered at: Poinsett Hotel

MERROW MACHINE CO. **234**
(See Hollister-Moreland Co.)

METLON CORP. **818**
Exhibiting: Metlon non-tarnishing metallic yarn in acetate, viscose, and butyrate qualities; Metlon-with-Mylar in qualities including Metlon F (foil lamination), H. T. (high tenacity), Ultra Vat, and Super Fine. Woven and knitted fabrics in which these yarns are used.
FIRST TIME SHOWN: Metlon-with-Mylar in High Tenacity, Ultra Vat, and Super Fine qualities.
Personnel in booth:
Arthur C. Brucks, pres.
Will Plowden, rep.
Davis E. Williams, rep.
E. J. Crocker, rep.
Quartered at: Clemson House
(See also Karl H. Inderfurth)

MINNESOTA PAINTS, INC. **325**

MITCHAM & CO. **270**
Exhibiting: Textile machine repair parts, including parts for pickers, cards, spinning frames, speeders, sombers, drawing, etc. Gears, chain drives, etc.
Personnel in booth:
Don O'Hair, salesman
R. W. Bailey, salesman
Charlie G. Stover, salesman
Jack W. Styers, shop foreman
Edith Mitcham Stroupe, pres.
Lillie Mitcham Andrews, v. p.
Alice Mitcham, sec.
Haskel Grant, supply room foreman

MITCHELL-BISSELL CO. **432**
Exhibiting: Ceramic thread guides of porcelain, Textalox, B80 or No. 54 composition; chromium-plated guide wires; enameled wire guides; shuttle eyes, and other accessories.
Personnel in booth:
J. R. Mitchell, vice-pres.
W. F. Fuetterer, sec.
Quartered at: Wade Hampton Motel
(See R. E. L. Holt, Jr., and Associates)

MODERN OFFICE MACHINES **271**
Exhibiting: Thermo-Fax copying machines and products manufactured by Minnesota Mining & Mfg. Co.
Personnel in booth:
Lloyd Auten, owner
Ruth Parkinson, office mgr.
Dell Owens, sales rep.
Carl Jones, sales rep.
Glenn Stevens, sales rep.

"MODERN TEXTILES MAGAZINE" **119**

MOFFATT BEARINGS CO. **265**
Exhibiting: A complete assortment of anti-friction bearings and special mounted units as used in the textile industry.
Personnel in booth:
O. S. Livingston, pres.
D. G. Hornbaker, vice-pres.
H. W. McCard — W. B. Osborne
Ralph Milford — S. D. Zeanah
Benjamin Ivey — A. Q. Davis
Jos. Blackwell
Quartered at: Poinsett Hotel

MONA INDUSTRIES, INC. **514**
Exhibiting: The latest Monalit-Duplex yarn conditioning machine; the Monarc yarn conditioning attachment for Abbott automatic quillers.
Personnel in booth:
R. H. Sommer, v. p.-sales
R. W. Bailey, sales rep.
D. C. O'Hair, sales rep.
Charles G. Stover, sales rep.

MONROE CALCULATING MACHINE CO. **343**

MORTON SALT CO. **512**
Exhibiting: Four grades of salt, including Kleer P.C.B. Salt, Chemical Grade "999" Salt; Purex; Kleer Coarse Rock Salt.
Personnel in booth:
B. L. Cribb — J. Mullinax
J. M. Culp — J. B. Neill
A. C. Dewey — E. R. Ravenel
A. C. Frick
Quartered at: Poinsett Hotel

MOUNT HOPE MACH'Y CO. **114**
Exhibiting: A new automatic weft straightener, the "Skew Liner," an automatic web tension control; and a floating roll guide.
FIRST TIME SHOWN: The "Skew Liner" automatic weft straightener featuring simple control setting, a simple detection system, and simple control action.
Personnel in booth:
J. D. Robertson, pres.
J. D. Robertson, Jr., mgr. Skew Liner
W. M. Gallahue, sales mgr.
S. A. Moffitt, text. cons.
Alex Spears, Jr., sales engr.
E. F. Slaughter, sales rep.
P. H. Slaughter, sales rep.
Wright Macomson, sales rep.
Quartered at: Poinsett Hotel

FRANZ MULLER MACHINENFABRIK **849**

T. J. MURPHY FUR CO. **220**
(See Batson Mfg. Co.)

NATIONAL CARBON CO. **339**
Exhibiting: "Karbate" impervious graphite equipment for handling the corrosive solutions used in the processing and finishing of textiles, including heat exchangers, pumps, valves, pipes and fittings.
Personnel in booth:
T. W. Manchester
H. L. Shepard

NATIONAL RING TRAVELER CO. **213**
Exhibiting: Ring travelers.
Personnel in booth:
F. L. Chase, Jr., pres. & treas.
L. E. Taylor, sou. mgr.
H. B. Askew, sales engr.
T. H. Ballard, sales engr.
F. S. Beacham, sales engr.
Quartered at: Poinsett Hotel

NATIONAL STARCH PRODUCTS, INC. **459**
Exhibiting: Cato cationic starch; Kofilm acetylated starch; Nu-Film for sizing cotton, spun rayon, and various blends.
Personnel in booth:
J. F. Fitzgerald, vice-pres.
L. J. Horan, mgr. S. E. div.
H. C. Olsen, supv., text. serv.
H. M. Smith, sales rep.
D. Ray Lassiter, sales rep.
C. A. Dyer, sales rep.
Quartered at: Poinsett Hotel

NATIONAL VULCANIZED FIBRE CO. **429**
Exhibiting: Doffing truck with box; floating bottom truck; roving cans of swedge top type, double turn, and metal top; mill boxes; nesting and stacking trays.
Personnel in booth:
R. W. Fisher, vice-pres.
E. B. Burnley, sales staff asst.
J. C. Davis, sales engr.
P. D. Heppe, adv. & pro.
Quartered at: Poinsett Hotel

NEMO INDUSTRIES, INC. **334**
Exhibiting: The Nemo Jet Cooker in operation; movie showing operation of the Nemo automatic cutting machine.
FIRST TIME SHOWN: Movie of the automatic cutting machine.
Personnel in booth:
Norman E. Elsas, pres.
Arthur C. Kleiderer
Quartered at: Colonial Court Hotel

NEW ENGLAND PAPER TUBE CO. **128**
(See Watson & Desmond)

NEW YORK & NEW JERSEY LUBRICANT CO. **109**
Exhibiting: The latest grades of Non-Fluid Oil for lubrication of textile machines.
Personnel in booth:
Jos. H. Bennis, pres.
I. L. Hall, vice-pres.
L. W. Thomason, Jr., sou. dist. mgr.
R. F. Bagwell, text. lubr. engr.
A. M. Cowan, rep.
F. W. Phillips, rep.
J. A. Sorrells, Jr., rep.
F. W. Winecoff, rep.
E. J. Wood, rep.

NIPPON SPINDLE MFG. CO. **245**
(See Edward S. Rudnick, Representatives)

ROY NOBLE CO. **220**
(See Batson Mfg. Co.)

C. A. NORGREN CO. **318**
(See L. W. Kinnear Co.)

NORRIS BROTHERS **432**
Exhibiting: Hickory and laminated picker sticks; binders; skewers; miscellaneous textile hardwood parts.
FIRST TIME SHOWN: The SuperStroke laminated picker stick for use on C-4 and W-3 type looms with plastic shuttles.
(See R. E. L. Holt, Jr. & Associates, Inc.)

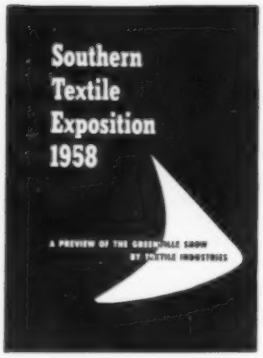
O-M SPINNING MACHINE MFG. CO. **245**
(See Edward S. Rudnick, Representatives)

OLNEY PAINT CO. **450**
(See Gilman Paint & Varnish Co.)

ORAMA ENGINEERING CO. **108-A**
Div. of H. F. Livermore Corp.

THE ORE-LUBE CO. **337**
(See General Enterprises, Inc.)

THE OSTER MFG. CO. **364**



J. C. PADDOCK CO. 431

Exhibiting: Textile materials handling products, including doff trucks, roving trucks (metal or fiber), spring bottom trucks, fiber doff boxes, quill cans.
Personnel in booth:
Sam E. Mabry, gen. supt.
L. E. Corn, salesman
M. K. Firesheets, salesman

PARKS-CRAMER CO. 502

Exhibiting: Certified Climate humidification and air conditioning; traveling cleaners for textile machines, overhead surfaces, and floors; vacuum end collection equipment for spinning frames; vacuum lint removal equipment; creels for spinning frames.
Personnel in booth:

W. J. Buck	G. F. Kellogg
J. F. Crooks	J. O. Kelly
Glenn Farthing	C. D. Lee, Jr.
Maynard Ford	John Nesmith
W. B. Granger	L. R. Sibley
J. R. Henderson	W. B. Walker
W. W. Hewitt	C. E. Ware, Jr.

M. H. PARKS CO. 229

(See Wilson F. Hurley)

PARKS & WOOLSON MACHINE CO......322

(See Riggs & Lombard)

PAWTUCKET SPINNING RING CO......835

(See Saco-Lowell Shops)

PENICK & FORD, LTD......455

Exhibiting: Textile starches, dextrines, sugars, syrups, and gums. New and improved Penford gums will be featured.
Personnel in booth:
O. H. Tousey, v. p.
P. G. Wear, sou. sales mgr.
G. M. Anderson, sou. mgr. text. tech. sales
J. H. Almand, sales rep.
J. R. Heard, tech. sales rep.
G. C. Henry, sales rep.
W. J. Kirby, sales rep.
T. H. Nelson, sales rep.
R. H. Pharr, sales rep.
J. R. Poer, sales rep.
M. W. Ramsey, tech. sales serv. rep.
Quartered at: Poinsett Hotel and Catalina Hotel Court

GEO. H. PENNELL CO......110-B

Exhibiting: Truco diamond drilling equipment in operation on reinforced concrete. Ramset fastening system.
FIRST TIME SHOWN: Truco diamond drilling equipment.
Personnel in booth:
Geo. H. Pennell, owner
Charles L. Garrett, salesman
J. W. (Jack) Parsons, dist. sales mgr., Ramset Fastening System
Quartered at: Orvin Motor Court

PERFECTING SERVICE CO. 409

PERMACEL-LePAGE'S, INC. 303

Exhibiting: Permacel slasher tape; LePage's industrial adhesives; complete line of pressure-sensitive tapes.
Personnel in booth:
G. A. Fitzgerald, v. p.-sales
J. S. De Noia, sales mgr.
J. W. Hagaman, prod. mgr.
Hale Dant, div. mgr.
Quartered at: Poinsett Hotel

THE PEROLIN CO., INC. 361

Exhibiting: Formet Water System Treatment No. 321 Crystals, for controlling corrosion and scale formation in all types of water supply, air conditioning, refrigeration, and humidifying systems.
FIRST TIME SHOWN: See above listing.
Personnel in booth:
Henry R. Strong, vice-pres.
Mort Mollner, sales engr.
Ken C. Gilmore, sales supv.
Bert V. Tiblin, eastern sales mgr.
Quartered at: Auto Motel

PICK MFG. CO. 310

PLUTTE, KOECKE & CO. 492

(See Atkinson, Haserick & Co.)

PNEUMAFIL CORP. 808

Exhibiting: All-new Pneumafil C-12 collector unit; Pneumakool; Pneumastop with new Electrofil; other new developments in the field of vacuum collection.
FIRST TIME SHOWN: Electrofil which patrols the creel portion of the roving frame and stops it instantly when a sliver break occurs, leaving a tail for piecing up.
Personnel in booth:
C. R. Harris, pres.
Marion Herndon, asst. sales mgr.
J. Walter Barr, vice-pres.
George Archer, sales engr.
Edward Williams, sales engr.
Dave Thorp, sales engr.
Bill Loyd, sales engr.
Quartered at: Colonial Court and Wade Hampton Motels

POE HARDWARE & SUPPLY CO. 143

Exhibiting: Rust-Oleum rust preventive; Brown & Sharpe precision tools, including micrometers, indicator gauges, depth gauges, ground flat stock, etc.; Boston Woven Hose & Rubber Co. air hose, water hose, V-belts, transmission belting, rub aprons, friction tape, etc.
FIRST TIME SHOWN: Brown & Sharpe micrometers and blued ground flat stock. Boston Woven Hose & Rubber neoprene air hose, water hose, and V-belts; also, improved Golden rub aprons.
Personnel in booth:
Crawford Poe, pres.
W. T. Henderson, Jr., vice-pres.
Carter Poe, v. p.
J. J. Swan, adv. mgr.
J. T. Hardy, gen. s. m.
Bruce Loring
Stan Clifford
Robert Ferguson

POWERS REGULATOR CO. 356

Exhibiting: Static pressure regulator; indicating temperature control; diaphragm control valve; liquid level control—Powers "Bubbler System."
Personnel in booth:
R. W. Clark, prod. mgr.
E. R. Bowman, adv. mgr.
B. L. Arbuckle, br. mgr., Charlotte
B. Vehorn, br. mgr., Greensboro
C. C. Carter, sales engr.
J. Slattery, sales engr.
Quartered at: Poinsett Hotel

PRECISION GEAR & MACHINE CO......410

Exhibiting: Textile machine bearing units for all textile machine applications; chain drives; card drives.
Personnel in booth:
A. J. DeMeyer, sales mgr.
C. D. Rogers
Quartered at Poinsett Hotel

PROCTOR & SCHWARTZ, INC. 262

Exhibiting: Photographs of the latest machinery developments for the textile industry, such as the new Proctor No. 729 blending feed, combination pin and clip tenter (Dalglish-Artos design), high-capacity Artos type tenter housing for both new and installed tenters of any design, high-capacity Artos type tensionless float dryer, high-capacity Artos type print goods dryer of single and multiple pass with or without washing and drying arrangements for back grey, and a curing machine which permits very low curing temperatures.
Personnel in booth:
C. W. Schwartz, IV, sales mgr. tex. mach'y
W. H. Poole, sales mgr. tex. fin. mach'y
T. A. Mahan, sou. rep.
J. P. Christ, sou. rep.
Quartered at Poinsett Hotel

PROGRESSIVE ENGINEERING, INC. 128

Exhibiting: Ball-bearing top rolls for spinning and roving; complete drafting system and parts; operating model of new drafting system and all component parts; top roll maintenance equipment.
FIRST TIME SHOWN: New support arm; Ny*Pro*Lon cradle and saddle; lubricating roll stand cover.

Progressive Engineering continued
Personnel in booth:
Kenneth P. Swanson, pres.
James J. Fine, sales
(See also Watson & Desmond)

THE PURE OIL CO......105

PURITAN CHEMICAL CO. 446

Exhibiting: The Advance Convertamatic electric floor machine which speeds up both wet and dry floor maintenance operations.
Personnel in booth:
T. V. Fisher, v. p.-mkt.
E. P. Collins, reg. sales mgr.
H. P. Hartley, salesman
J. E. Hulsey, salesman
C. B. Shugart, salesman
G. B. Wright, dist. sales mgr.
C. E. Braun, sales mgr. sou. div.
R. C. Inabinet, salesman
H. S. Collinson, salesman
A. D. Foster, salesman
H. M. Boniske, salesman
Quartered at: Calhoun Towers

RAMSET FASTENING SYSTEM.....110-B

(See Geo. H. Pennell)

RAMSEY CHAIN CO......106-A

(See Ira M. Valentine)

REEVES PULLEY CO......144

(See Reliance Electric & Engineering Co.)

ROBERT REINER, INC. 845

Exhibiting: Space for visitors.
Personnel in booth:
Walter Horn, sales engr.
H. D. Scheube, sales engr.
Quartered at Poinsett Hotel

RELIANCE ELECTRIC & ENGINEERING CO......144

Exhibiting: Reeves equipment, including No. 975 Vari-Spin drive with lint-proof a-c motor, No. 16-10 Vari-Spin drive with lint-proof a-c motor, Series 200 Motodrive, Series 90 motor pulley, variable speed transmission, Master right-angle gearmotor, "octopus" gearmotor, Reliance variable-speed drives.
FIRST TIME SHOWN: Redesigned Reliance V*S drive—a 50-hp variable-speed drive system with start-stop, speed selector, jog, dynamic braking, and field reversing, equipped with new Reliance Super "T" motor-generator set in new, smaller control cabinet. Fractional-horsepower V*S Jr. electronic adjustable speed drive.
Personnel in booth:
G. Van Buskirk

R. G. Wilson	R. T. Willard
J. P. Reeves	E. R. Campbell
W. H. Chambers	T. C. Feathers
J. B. Thomas	L. E. Blackwell
V. R. Murphy	P. J. McCausland
C. E. Robinson	A. W. Fairer
E. G. Orahood	B. E. Tharpe
A. J. Stockslager	M. R. Snyder
D. H. Gordon	C. D. Wright
J. G. King	J. L. Highsmith

Quartered at: Greenville Hotel

REYNOLDS METALS CO......484

Exhibiting: The complete line of Reymet metallic staple and yarn, including sample fabrics; samples and finished apparel using Reymet staple; samples of aluminum fabricated pastes that are used in the textile industry.
Personnel in booth:

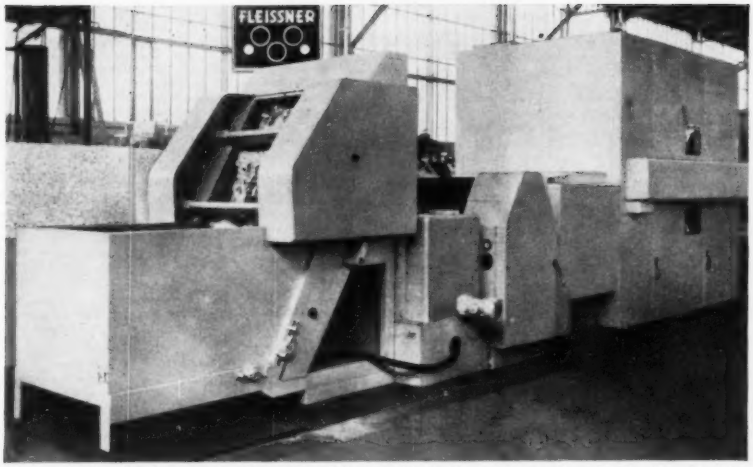
R. F. Lewis	
Frank Hart	Tom Kirby
Tom Manning	S. R. McCauley

RICE DOBBY CHAIN CO......432

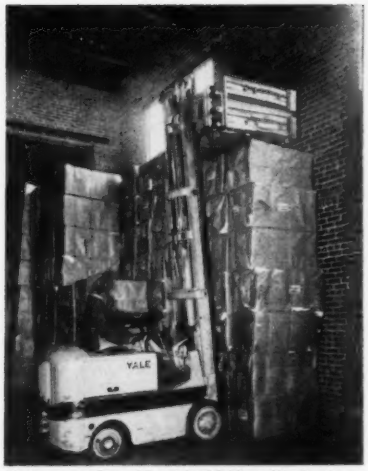
(See R. E. L. Holt, Jr., and Associates)

THE RIDGE TOOL CO......439

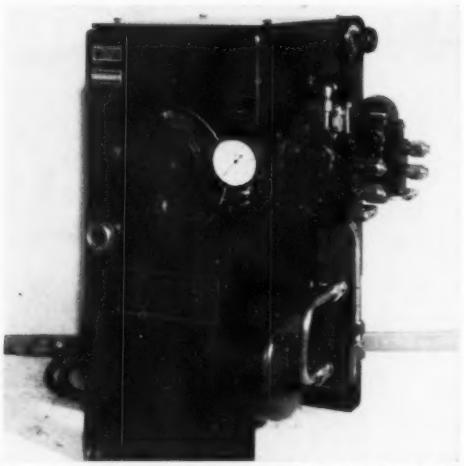
Exhibiting: The complete line of Ridgid work-saver pipe tools.
FIRST TIME SHOWN: The No. 315 three-wheel tubing cutter which is designed especially for easy cutting of hard-to-get-at tubing with just short quarter turns; the No. 450 portable tristand top-screw chain vise which is also a portable work bench; the No. 161 4" to 6" geared pipe threader which is jamproof for safe threading with power drive, and also provides fast and easy taper adjustment for straight or tapered threads; and a new Hex Wrench which features a wide-open jaw that is easy to put on and take off for new grip and is especially helpful in work on valve packing nuts or valves in service.
Personnel in booth:
R. Fye
R. Hamlin
F. Ronan



For quickly drying raw stock or fabrics that do not require tentering is this Fleissner patented air suction drum dryer which Saco-Lowell will exhibit in Booth 835. This machine is described in the "New Product Parade" section of this issue on page 229.

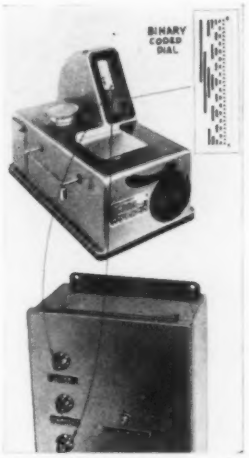


Coleman Co. (Booth 826) will feature this new Yale Triplex Mast truck which stacks to a height of 180", yet will go through an 83" high door.



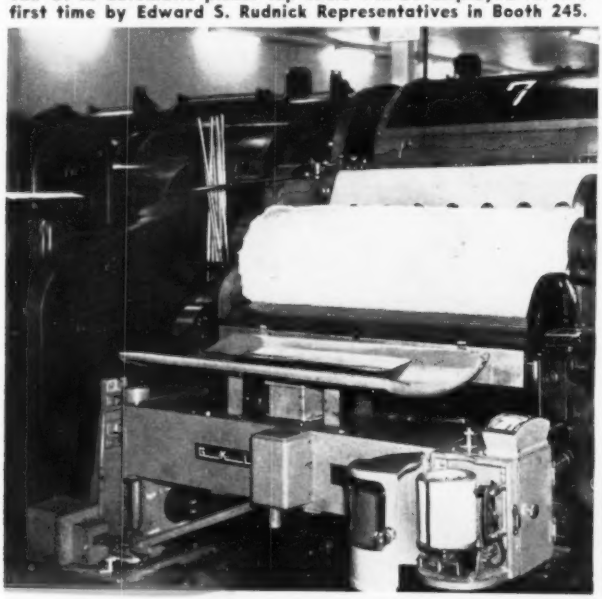
The new Model 525 Twin Jet cloth guide for tenter frames will be exhibited by Askania Regulator Co. in Booth 117.

Burke sound detectors for locating defects in machinery will be displayed in the Coleman booth (826).

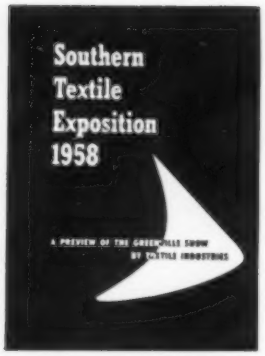


Basic Weight Classifier by Exact Weight Scale Co. See it in Booth 208.

The G. K. automatic picker lap scale will be displayed for the first time by Edward S. Rudnick Representatives in Booth 245.



Scott Testers will introduce this constant rate of extension tensile tester in Booth 401.



RIGGS & LOMBARD, INC.....322

Exhibiting: Photographs and literature describing the complete line of machinery available from Riggs & Lombard, Cook Machine Co., and Parks & Woolson, including equipment for practically all finishing processes for cotton, woolen, worsted, and synthetic fabrics, and certain knit goods.
Personnel in booth:
Mr. Hadley, P&W
E. M. Cook, Cook
E. F. Hayes, exec. v. p.
J. W. Malloy

ROBERTS CO. 812

Exhibiting: The M-1 spinning frame for cotton, synthetics, worsted, and blends, for short and long staple lengths. Modernization material for existing spinning frames, including ball bearing spindles, ball bearing top roll suspension, double apron drafting, AeroCreels, UnitVac suction cleaning, underframe motor drive package, and all accessories. Twister speed-up modernizations.
FIRST TIME SHOWN: Top roll suspension (one line or all three lines) for drafting systems; Roberts latch-type bobbin holders; long staple drafting system.
Personnel in booth:
R. E. Pomerantz, pres.
J. N. Pomerantz, vice-pres.
R. D. Padgett, vice-pres.
D. E. Henderson, vice-pres.
C. E. Oliver, sales
M. C. Golden, sales
C. E. Hollis, sales
W. A. J. Peacock, sales
M. O. Bradshaw, sales
R. C. Scott, adv. mgr.
Quartered at: Poinsett Hotel & Spanish Motor Court

E. F. ROSE & CO. 302

Exhibiting: All types of clearers for spinning, roving, and carding, including the new Sta-Clean revolving top clearer cover, revolving top clearers, clearer boards, scavenger rolls.
FIRST TIME SHOWN: Sta-Clean revolving top clearer cover.
Personnel in booth:
E. F. Rose, owner
Wesley Rose, asst. mgr.
Bill Rose, mgr.

ROTHERM ENGINEERING CO., INC.....215

Exhibiting: Revolving joints; expansion joints.
FIRST TIME SHOWN: Expansion compensators with sight glass indicators.
Personnel in booth:
H. S. Kuhn, pres.
H. D. Hohm
Quartered at: 128 Buist Ave.

B. S. ROY & SON CO.....206

Exhibiting: "In place" portable roll grinding; AlumaRoy drum flat grinder; Microsion cradle; ball-bearing traverse grinder; metallic grinder.
FIRST TIME SHOWN: "In place" portable roll grinder; Microsion cradle; metallic grinder.
Personnel in booth:
Ed Barnes
Howard Duke
Don Bousquet

EDWARD S. RUDNICK, REPRESENTATIVES..245

Exhibiting: The OM-S sliver-to-yarn spinning frame; drawing frame with automatic can doffing; G. K. automatic picker lap scale; roller bearing spindles; anti-friction spinning rings; "Pneumanies" suction cleaning system; card clothing; bobbins and quills; paper spinning tubes; Fibre-Clad and plain shuttles.
FIRST TIME SHOWN: G. K. automatic picker lap scale; overframe cleaner on OM-S spinning frame; paper spinning tubes with Japanned finish.
Personnel in booth:
Edward S. Rudnick, pres.
William Boslin, pres. Economy Text.
S. Tominaga
M. Sanada
Terry Ogisu
Quartered at: Poinsett & Ottaray Hotels

SACO-LOWELL SHOPS.....835

Exhibiting: Spinning frame with new system of drafting; opening equipment; automatic cleaning attachment for No. 11 dust and waste extractors; special exhibit showing modernization program especially designed to cope with poor cotton; anti-friction card coilers; big coilers for drawing; automatic self-cleaning top and bottom clearers; sponge rubber clearers for roving and spinning; three anti-friction bearing applications for roving; spindles; Pawtucket Spinning Ring Co.'s new Speed-Tex rings. Also, the Air Suction Drum Dryer designed by Fleissner & Son of West Germany.
FIRST TIME SHOWN: Magnetic top rolls for spinning—magnetic force produces required pressures in drafting element, doing away with all auxiliary equipment for applying pressure to top rolls and all lubrication in drafting zone. Speed-Tex rings. High-speed color movies illustrating the importance of using the "right traveler" and including a technical description of what causes ends down, fuzzy yarn, short traveler life, poor yarn quality, and excessive ring wear. A complete Fleissner Air Suction Drum Dryer for drying all types of raw stock and loose fibrous material, including top, tow, non-woven fabric, and knitted goods.
Personnel in booth:
W. F. Lowell, Sr., vice-pres.
E. J. McVey, v. p.-sales
J. W. Hubbard, sales rep.
F. S. Culpepper, sales rep.
J. W. Dickert, sales rep.
Herman Jones, sales rep.
W. K. Dana
A. L. Landau

SCHACHNER LEATHER & BELTING CO.....337

Exhibiting: Combination nylon and leather belting; Oak Tan leather belting; long draft spinning aprons of bark, chrome and retannage, treated, untreated; hairy leather check straps, open end and endless; Oak Tan box plate and binder leathers; pickers.
FIRST TIME SHOWN: Plastic loop pickers.
Personnel in booth:
B. M. Schachner, sales mgr.
J. L. Harkey, vice-pres.
P. G. Schachner, sec.
J. A. Schachner, pres.
Chas. G. Hinkle, agent
Quartered at: Holiday Inn Motel
(See also General Enterprises, Inc.)

SCHARER TEXTILE MACHINE WORKS.....452

Exhibiting: Two super-speed fully automatic filling winders for winding cotton and spun rayon yarns—the Model HHBEZUV—CF stacking into double boxes and taking the production of two winding units, and the Model HHBXV-CF stacking into Draper automatic filling magazine. A fully automatic filling winder for winding continuous filament yarns (Model SAY-SSKF), stacking onto pinboards.
Personnel in booth:
Jacques Scharer, owner
Kaspar Laager, engr.
Otto Zollinger, engr.
(See also Yeomans Textile Machinery Co.)

W. SCHLAFHORST & CO.....486

(See Terrell Machine Co.)

SCHMIDT MFG. CO.....467

SCOTT TESTERS, INC. 401

Exhibiting: In operation the new "Model CRE" constant-rate-of-extension tensile tester; Model X-5 light-duty tensile tester equipped with Fletcher rubber-insert clamps; Model B internal bond tester for non-woven materials; the new A-8 heavy-duty fabric clamp for duck, webbing, laminated and coated fabrics; Spruance pneumatic tire cord clamps. Products of Scott Testers (Southern), Inc., including a new balance for determination of count by weighing 120-yard reelings of yarn, and showing standard 36" roving reel, standard umbrella reel, standard 36" or 54" yarn reel, standard yarn evenness controller.
FIRST TIME SHOWN: The "Model CRE" tester for tensile evaluations from 0.1 to 1,000 lb by the constant-rate-of-extension electric weighing technique; pulling stroke is upward, permitting the clamps to be loaded within convenient reach of the operator when seated.
Personnel in booth:
Edwin H. Benz, sales engr.
John E. Hargreaves, gen. mgr.

THE SELIG CO.....232

Exhibiting: Material and equipment for the maintenance of textile mill floors. Degreasing compounds, including a special agitator type cold dip cleaner for degreasing parts. Sanding and steel wool equipment.
FIRST TIME SHOWN: Agitator type cold dip degreasing kit.
Personnel in booth:
W. F. Bode, gen. mgr.
Alvin Hamburger, gen. sales mgr.
Charles Pearl — Charles Vickery
Lee Strasburger — Sol Hayes
Alvin Schwab — Bob Hyatt
Milton Doctor
Quartered at: Greenville Hotel

SEYDEL-WOOLLEY & CO. 238

Exhibiting: Improved warp lubricator or after-waxing roll with variable-speed drive; scale model of the Niagara Twist-Setter yarn conditioning machine; samples of various chemicals, including Permachem, a permanent-type antiseptic finish.
Personnel in booth:
Vasser Woolley, pres.
John R. Seydel, vice-pres.
A. W. LaGrone, dist. sales
David Meriweather, sales mgr.
E. F. Harrison, tech. rep., size div.
Francis B. deLoach, tech. rep., size div.
Baxter Hemphill, tech. rep., size div.
V. R. Mills, tech. rep., size div.
W. H. Cutts, tech. rep., size div.
W. L. Whisnant, tech. rep., size div.
Howard McCamy, tech. rep., finish. div.
R. P. Anthony, Jr., tech. rep., finish. div.
Quartered at: Greenville Hotel

SHELL OIL CO.....103

Exhibiting: Vexilla line of oils for textile machine lubrication.
FIRST TIME SHOWN: See above.
Personnel in booth:
E. J. Colerick, ind. prod. rep.
K. H. Nonweiler, ind. prod. rep.
P. Goddard, ind. prod. rep.
M. S. Treadway, ind. prod. rep.
G. Potter, ind. prod. rep.
T. Stevens, ind. prod. rep.
E. L. H Bastian, Sr., engr. mfg.

SIGNODE STEEL STRAPPING CO.....403

Exhibiting: Latest power strapping tools and machines for applying steel strapping to cartons, bales, and bundles. Expendable pallets. New methods of packaging.
Personnel in booth:
M. L. Fagin, reg. mgr.
S. W. Brown, dist. mgr.
C. H. Carlson, sales pro. mgr.
J. H. Elsinger, sales rep.
H. Sierra, sales rep.
C. E. Talbutt, sales rep.
Quartered at Poinsett Hotel

J. E. SIRRINE CO.....204

Exhibiting: Space for visitors and a telephone for those wishing to make outside calls.
Personnel in booth:
J. H. Bringhurst, Jr.
J. L. Roberson, Jr.
George Wrigley, Jr.
R. R. Adams
A. D. Asbury — F. M. Martin
A. S. Bedell — H. L. McDonald
F. B. Bozeman — H. W. Meakin
L. W. Burdette — I. J. Mikell
W. L. Carpenter — D. G. Moon
G. W. Cumbus — G. R. Morgan
H. S. Forrester — W. H. Nardin
H. W. Frederick — G. P. Patterson
G. C. Gaskin — A. M. Rickman
O. F. Going — W. A. Robinson
C. E. Green — L. A. Seaborn
S. M. Hunter — J. F. Spellman
W. C. Kendrick — M. M. Stokely
C. J. Liles — H. C. Swannell
Milton Lite — H. H. Watkins
J. T. Mallard — C. T. Wise

SLAUGHTER MACHINERY CO.....113

SLIP-NOT BELTING CORP. 358

Exhibiting: Belting, strapping, and other mill supply items.
FIRST TIME SHOWN: Mechanical checking device; pickers.
Personnel in booth:
P. J. Shivell, pres.

Slip-Not Belting continued
M. B. Vaughan, vice-pres.
Otto R. Cox, sales mgr.
E. S. Meservey — G. H. Spencer
O. L. Carter — J. R. Youngblood
Melvin Bell
Quartered at: Ottaray Hotel

E. E. SMITH & SON, INC. 313
Exhibiting: Small machine parts; literature on various carding and spinning supplies.
Personnel in booth:
R. S. Brice, pres.
D. P. Logg, salesman
W. G. Walker, warehouse foreman & salesman
Quartered at: Greenville Hotel

B. SNOWISS FUR CO. 432
Exhibiting: Australian opossum skins for shuttle fur; North American muskrat skins for shuttle fur; wool lamb skins; manufactured opossum and muskrat shuttle fur strips; manufactured sheepskin strips; sheepskin creel pads.
Personnel in booth:
B. Snowiss
(See also R. E. L. Holt, Jr., and Associates)

SONOCO PRODUCTS CO.....244
Exhibiting: Cones, tubes, spools, cores, bobbins, and paper specialties.
Personnel in booth:
C. B. Harper, sales rep.
W. M. Carpenter, sales rep.
W. K. Lewis, Jr., sales coord.
P. F. Williams, sales rep.
J. A. Reagan, Jr., adv. mgr.
B. H. Biggs, sales rep.
H. M. Adams, sales rep.
W. R. Peacock, sales rep.
J. E. Tigney, sales rep.
C. W. White, sales dir.
Quartered at: Greenville Hotel

SOUTHEASTERN LOOM & MACHINE WORKS 129
Exhibiting: Latest Model X-2 loom with aluminum lay, center filling fork, clock spring top, Southeastern one-piece spreader with bearings bored in line, and featuring double roll take-up and Westinghouse clutch-brake motor. Loom repair parts. A new card drive. A new 18" x 42" card coiler. Equipment to changeover drawing frames to use 15" x 42" cans, even if the drawing frame is only 16" gauge. Aluminum pulley replacements for spinning frame cylinders.
FIRST TIME SHOWN: Card drive that has very few moving parts and is vibration- and trouble-free. 18" x 42" card coiler with anti-friction bearings, spring-loaded adjustable calender rolls, and other features, including one that eliminates the necessity of lubricating the gear teeth.
Personnel in booth:
Al Reid, salesman
Dewey Williams, salesman
Billy Flinn, salesman
James Manley, salesman
O. V. Hair, salesman
J. A. Moore, plant supt.
Horace Whitmire, compt.
Conway Still, pres.
Royce Cannada, spec. engr.

SOUTHEASTERN SAFETY APPLIANCE CO. 346
Exhibiting: Ansul Chemical Co. dry chemical fire extinguishers; Davis Emergency Equipment Co. first aid items; Scott Aviation Corp. Air Paks and inhalators; Miller Equipment Co. industrial safety belts; Charleston Rubber Co. rubber gloves.
Personnel in booth:
P. H. Ellington, sales mgr.
W. E. Beddingfield, fld. engr.
R. E. Sisson, fld. engr.
J. R. Copeland, fld. engr.
Quartered at: Orvin Motor Court

SOUTHERN LOOM DEVELOPMENT CO.....142
Exhibiting: Hunt variable speed positive let-off.
Personnel in booth:
Mrs. Yvonne B. Hunt, pres.
J. W. Stuart, gen. mgr.
F. E. Hooper, tech.

SOUTHERN STATES EQUIPMENT CORP.....266
Exhibiting: Individual card drive; ball bearing comb box; 18" complete coiler stand for cotton cards; 16" coiler conversion for cotton cards; 24" wool coiler; can dolly.
FIRST TIME SHOWN: 24" wool coiler.
Personnel in booth:
C. W. Walter, v. p., mech.
C. H. Kennington, N. C. sales supv.
John Walters, salesman
W. A. Knapp, salesman

Southern States continued
Frank Birchfield, salesman
R. L. Williams, salesman
W. N. Watkins, salesman
Quartered at: Greenville Hotel

"SOUTHERN TEXTILE NEWS".....304

SPAULDING FIBRE CO. 202

SPINLAB, INC. 127
Exhibiting: Digital Servo Fibrograph (Model 183); Port-Ar (Model 175); Stelometer (Model 154); print cloth inspector (Model 153); beta ray evenness controller.
FIRST TIME SHOWN: Model 153 print cloth inspector; beta ray evenness controller for the drawing frame; Model 183 digital servo Fibrograph.
Personnel in booth:
Donald L. Jackson, vice-pres.
Tom Pace, sales mgr.

SQUARE D CO. 847
Exhibiting: Adjustable voltage-adjustable speed drives; textile control circus—"Quik Stop"—and reactor starting; drawout switchgear.
FIRST TIME SHOWN: Proximity limit switch.
Personnel in booth:
Bud Whitney — Irv Swanson
Chas. Quentel — Hal Prescott
Russ Ohlson — Len Murrans

A. E. STALEY MFG. CO. 412
Exhibiting: Sta-Thick thick boiling starch; Anchor pearl starch; Eclipse thin-boiling starches; Ethylex gums (hydroxy ethyl ether derivatives of corn starch); Gransize starch; Staclipse thin-boiling starches; Stacolloid gums (series of non-congealing starch derivatives in a wide range of viscosities).
Personnel in booth:
L. E. Doxie, asst. mgr. corn div.
E. H. Crosse, grp. ldr. appl. res.
F. J. Kekeisen, sou. reg. sales mgr.
W. N. Dulaney, mgr. Atlanta br. office
D. A. Barnes, tech. serv. rep.
H. A. Mitchell, text. supv.
H. H. Ector, tech. rep.
Crawford Garren, tech. rep.
N. N. Harte, Jr., tech. rep.
L. J. McCall, tech. rep.
B. O. Merritt, Jr., tech. rep.

THE STANLEY WORKS.....461
Steel Strapping Div.
Exhibiting: Jet air-operated strapping tool; ESM electric skid magazine tool; ECL electric carbanding tool; SPS Stanley power strapper.
Personnel in booth:
J. C. McGunnigal, sales mgr.
J. A. Dickson, dist. sales mgr.
R. F. Brown, sales rep.
W. L. Tolson, sales rep.
C. J. Turpie, Jr., sales rep.
T. P. West, sales rep.
G. H. Stephenson, sales prom. rep.
Quartered at: The Poinsett, Holiday Inn, Collins Motor Court.

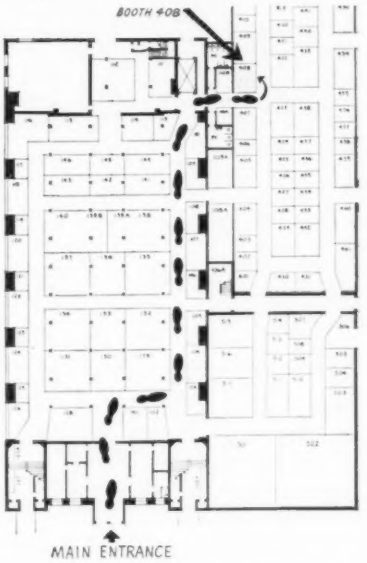
STEEL HEDDLE MFG. CO.....137

STEIN, HALL & CO., INC.....427
Exhibiting: Space for visitors.
Personnel in booth:
Edwin Stein, chm. of bd.
Leonard F. Costello, mgr. text. dept.
N. H. Nuttall, mgr. Charlotte br.
E. D. Estes, mgr. Atlanta br.
J. W. Benefield, salesman
E. P. Lavoie, salesman
H. Harrelson, salesman
Quartered at Poinsett Hotel

STERLING ENG. & MFG. CO.....216
Exhibiting: Self-stacking boards for bobbins, cones, tubes, quills, etc., made of cadmium-plated and stainless steel. Aluminum quill boards and self-stacking tube board with flexible holder for yarn shrinkage. Yarn handling trucks.
Personnel in booth:
George McGee, vice-pres.
Quartered at Poinsett Hotel

STRANDBERG ENGINEERING LABORATORIES, INC. 832
Exhibiting: Moisture Monitors and controls for pickers, slashers, tenter frames, and dryers; Chatham loom stop counter; Auto-Count systems.
FIRST TIME SHOWN: Model M-600 Moisture Monitor with automatic control; Chatham loom stop counter; Auto-Count Systems for centralized mass production control.
Personnel in booth:
Chas. F. Strandberg, pres.
W. E. Plemmons, shop mgr.
E. R. Bond, sales
John Foster, sales

WELCOME TO BOOTH 408



You are cordially invited to visit with the editors and circulation and business representatives of "Textile Industries." The footprints on the floor plan above show how to find us. Follow them. We'll be glad to see you.—The Editors.

Strandberg continued
F. Neal Houston, sales
C. B. Pederson, sales

SUNRAY CO. 212
(See Greenville Textile Supply Co.)

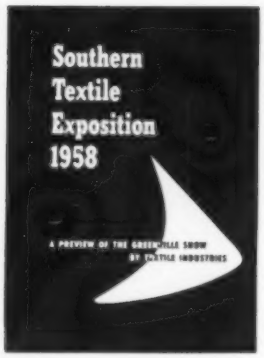
SUPERIOR BOLSTER CO. 307
Exhibiting: Complete line of spinning and twisting bolsters, including a nylon type; anti-friction spindle.
FIRST TIME SHOWN: Anti-friction spindle.
Personnel in booth:
Geo. R. Currence, vice-pres.
J. G. Patterson, sales mgr.
Quartered at: Ottaray Hotel

SYKES FOUNDRY & MACH. CO., INC.....146

SYLVANIA ELECTRIC PRODUCTS, INC.....421

TAYLOR INSTRUMENT COS.....454
Exhibiting: A new line of electronic instruments for the textile industries, as well as the latest advances in pneumatic instrumentation, including the Potentiometer Transducer and the Sensaire temperature transmitter.
Personnel in booth:
H. G. Olsen — H. M. Messenger
L. H. Van Huben — D. G. Warner
J. Barker — C. H. Miller
J. E. Burnett — R. S. Peterson

G. H. TENNANT CO. 420
Exhibiting: Model E floor machine, Model 40 power sweeper; No. 15 Heavy Duty Floor Seal.
FIRST TIME SHOWN: No. 15 Heavy Duty Floor Seal.
Personnel in booth:
R. F. Guthrie, div. mgr.
W. Bostwick, sales rep.
Dallas Peel, sales rep.
Continued on next page



G. H. Tennant continued
Frank Graham, sales rep.
G. D. Billings, pub. rel. dir.
W. Teague, sales rep.
Leonil Bass, sales rep.
John Foreman, sales rep.

THE TERRELL MACHINE CO. 486
Exhibiting: Type L bobbin cleaning machine with hopper feeder; bobbin conveyors with automatic in-process storage bin; Schlafhorst Autocopser filling winder depositing yarn into boxes, on pinboards, and in Draper automatic battery loader; Type M roving bobbin cleaning machine; loom pickers.
Personnel in booth:
Dr. W. Reiners — J. R. Hartmann
W. S. Terrell — J. F. Notman
R. A. Moore — M. H. Ridenhour
R. Ferguson — J. E. Scott

THE TEXAS CO. 448
Exhibiting: Alcaid Oil; 564 Rustproof Oil; 556 Loom Oil; Regal Oils; Spintex Oils; Spindura AA; Stazons; Marfak Multipurpose 2; Multifak 2; Marfak HD EP O & 1; TG-3079 Grease; Meropas.
Personnel in booth:
C. F. Walker, lube engr.
W. P. Camp, lube engr.
J. M. Hackney, asst. div. sales mgr., Norfolk
A. C. Keiser, Jr., asst. div. mgr, Atlanta
F. G. Mitchell, ind. sales
A. O. Mundy, dist. rep.
F. E. Rosentiehl, mgr. lube sales div.
Quartered at: Greenville Hotel

TEXIZE CHEMICALS, INC. 430
Exhibiting: Softeners, binders, waxes, emulsions, and general maintenance chemicals.
Personnel in booth:
W. J. Greer, pres.
W. N. Kline, Jr., v. p.-sales mgr., text. prod. div.
Carl M. Chalmers, asst. sales mgr. prod. div.
Joe A. McNeill, tech. rep.
Ralph L. Parker
Clarence A. Barrett
T. D. Greer, mgr. comm. prod. div.
C. H. Crews, comm. prod. div.
Walter M. Greer, sales rep.
Quartered at: Greenville Hotel

TEXPAK PLASTICS, INC. 319
Division of Dockery Mfg. Co., Inc.
Exhibiting: Laminated hickory picker sticks; pickers; lug straps; Fiberglass doff boxes.
FIRST TIME SHOWN: Polytomic pickers, lug straps, and check straps, and other parts for the textile industry.
Personnel in booth:
John C. Dockery
Nicholas W. Dockery
Quartered at: Greenville Hotel

TEXPLANT CORP. 124
Exhibiting: Nissex card clothing, and literature on card grinding equipment, Fleissner dryers, and Monforts nappers and reactors.
Personnel in booth:
A. J. Lindell, pres.
J. P. Fratturo
Paul Mayer

"TEXTILE BULLETIN" 203

TEXTILE ELECTRONICS, INC. 462
Exhibiting: The Qualitex electronic slub catcher in operation on various types and sizes of yarns. Size of slubs and other defects to be removed from the yarn may be selected quickly and easily through electronic controls. Chafing of yarn is eliminated.
FIRST TIME SHOWN: See above.
Personnel in booth:
J. I. Teat, pres.
C. D. Lee, Jr., vice-pres.
B. H. Crawford, vice-pres.
H. K. Smith, sales mgr.
M. D. Lindsay
J. O. Casey
Hendrik Glastra, pres., Qualitex, N. V.
Quartered at: Wade Hampton Motel

"TEXTILE INDUSTRIES" MAGAZINE.....408
Exhibiting: TEXTILE INDUSTRIES magazine, a monthly publication for production and management executives and supervisors of the spinning, weaving, knitting, and wet processing mills. Reprints of feature articles from previous issues. TEXTILE INDUSTRIES Annual Product Parade and Buyer's Guide issue. Premiums which are given with subscriptions to TEXTILE INDUSTRIES, including the recently published "Warp Sizing," a 520-page complete reference on the subject.
Personnel in booth:
R. P. Smith, pres.
George H. Dockray, editor
J. Frank Guest, mng. editor
Milton C. May, assoc. ed.
Stanley M. Suchecki, assoc. ed.
Jesse W. Ellington, assoc. ed.
John C. Cook, bus. mgr.
Walter M. Mitchell, Jr., adv. mgr.
Arthur C. Shaw, rep.
William K. Hoffman, rep.
James R. Corgee, rep.
Richard F. Hanrahan, rep.
A. E. C. Smith, rep.
W. Cliff Rutland, rep.
Quartered at: Poinsett Hotel, Flamingo and Wade Hampton Motels

TEXTILE PUBLICATION SERVICE 273
of Jacobs Brothers
Exhibiting: Manuals, posters, handbooks, publications, stickers, awards, etc., dealing with safety, good housekeeping, production, communications, and policies in the textile plants.
Personnel in booth:
Hugh S. Jacobs, co-owner
W. P. Jacobs, co-owner

THE TEXTILE SHOPS 115

"TEXTILE WORLD" 224

TEXTUBE CORP. 124
Exhibiting: Tubes, bobbins, spools, cones, etc., for spinning, twisting, draw-twisting, winding, and weaving, made of treated paper, hardwood, plastics, and light metal.
(See Texplant Corp.)

H. J. THEILER CORP. 823
Exhibiting: Staubli dobby heads, both single and double cylinder; photos of the Benninger high-efficiency warping machine; electronic-optical bobbin feeler.
FIRST TIME SHOWN: The electronic-optical bobbin feeler; photos of the Benninger warper.
Personnel in booth:
H. J. Theiler, pres. — Hans Badertscher
Othmar Staubli — H. S. Singer
Quartered at: Poinsett & Ottaray Hotels

TOLEDO PIPE THREADING MACHINE CO. 141

TOLEDO SCALES 415
Division of Toledo Scale Corp.
Exhibiting: A portable cotton lap scale with automatic Printweigh; representative models of the complete line of weighing equipment for the textile industry, including fan scales, net-weighing scales, portable scales, and floor scales.
Personnel in booth:
M. W. Mengel, sales mgr., standard ind. prod.
H. B. Sanford, reg. sales mgr.
W. F. MacKinnon, dist. sales mgr.
W. S. Heape, dist.
Quartered at: Poinsett Hotel

TON-TEX CORP. 432
(See R. E. L. Holt, Jr., and Associates)

TRION, INC. 317
Exhibiting: Electronic air cleaners.
FIRST TIME SHOWN: See above.
Personnel in booth:
E. W. Meyers, Jr., pres.
J. W. Hall, Jr., reg. sales mgr.
Lee W. Kelley, rep.
W. C. Amos, sales pro. mgr.
Quartered at: Greenville Hotel

TRUMETER CO. 247
Exhibiting: Counting and measuring instruments; piece end sewing machine.
FIRST TIME SHOWN: New counting and measuring devices and the new Birch carpet piece end sewing machine.
Personnel in booth:
Eric Seligmann
A. Abel
Tom Aydelette
Fred Slaughter

UNION BAG-CAMP PAPER CORP.....350

UNIVERSAL WINDING CO. 810
Exhibiting: Unifil loom winders winding cotton, synthetic, and nubby yarns; Model No. 10 ring twister with latest improvements; Model No. 210 twister-coner; No. 959 take-up machine; Brush textile testing equipment.
Personnel in booth:
R. Leeson, pres.
R. S. Penncck, v. p.-dom. sales
J. W. Stribling, sales mgr.
F. P. Barrie, dist. mgr.
L. E. French, export sales mgr., Latin Am. & Pac. area
H. H. Richardson, export sales mgr., Europe & S. E. Asia
F. J. Barrows, dist. sales engr.
E. C. Parish, dist. mgr.
J. R. Breen, dist. mgr.

U. S. BOBBIN & SHUTTLE CO. 125
Exhibiting: Space for visitors.
Personnel in booth:
M. L. Johnston, salesman
C. W. Hite, salesman
J. C. Fulling, salesman
Quartered at: Catalina Motel

U. S. RING TRAVELER CO. 801
Exhibiting: Various sizes and styles of travelers.
Personnel in booth:
L. W. Doel, gen. mgr.
H. J. Smith, sales mgr.
H. R. Fisher, rep.
O. B. Land, rep.
R. V. Borden, rep.
W. H. Rose, rep.
Quartered at: Ottaray Hotel & Holiday Inn

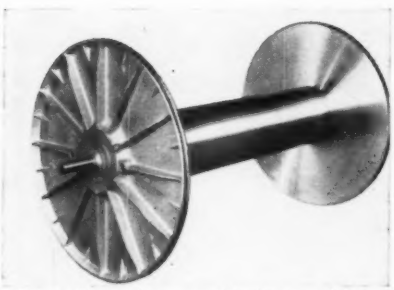
U. S. TEXTILE MACHINE CO. 835-A
Exhibiting: A single spindle unit of the Acme Jumbo Texturizer which is ideal for sample Taslan yarns, with the flexibility to make regular or novelty yarns. The Acme Jumbo Texturizer, a 50-spindle machine which produces heavy denier yarns (such as those used in tufted carpets) on large packages (10" diameter, 10" traverse); features include automatic release mandrels, gate or disc tensions and nip rolls for heavier deniers, positive yarn feed control, and simplicity of threading and accurate tensioning.
Personnel in booth:
A. W. Thomas, Jr., exec. v. p. & gen. mgr.
D. W. Scheuer, asst. gen. mgr.
P. J. Thomas, dir. engr.
C. H. White, sou. rep.
Michael Turner, sou. rep.
Wm. Russell, sou. rep.

USTER CORP. 473
Exhibiting: Universal evenness tester; Model C evenness tester for filament; linear and quadratic integrators; Hy-Lo (imperfection) indicator; Spectograph. Lap Varimeter with humidity compensator; high speed winding device.
FIRST TIME SHOWN: High speed winding device; Lap Varimeter with humidity compensator.
Personnel in booth:
Dr. Benno Bissie dir. Zellweger
Dr. Hans Locher dir. Zellweger
W. P. Floyd, test. equip. mgr.
Hans Winiger, mach'y mgr.
Jas. Wright, prod. engr.
Vernon Brockman, sales engr.
Jack Taylor, sales engr.
Burton Sweet, sales engr.
William Boyd, sales engr.
Aldo Broccari, sales engr.

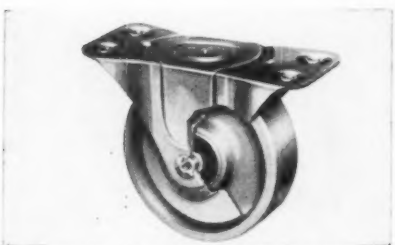
IRA M. VALENTINE 106-A
Exhibiting: Gears, shafts, reducers, special gears, spiral bevels, hypoids, etc., of American Stock Gear Div. of American Gear Co. Speed reducers of George P. Dorris Co. Ramsey Chain Co. silent chain for frame drives, changeover drives, special sprockets, card flat chain, special gear boxes to customer specifications, special application gear boxes and drives.
FIRST TIME SHOWN: See above.
Personnel in booth:
Ira M. Valentine, sou. mgr.
A. G. Laughridge, sales engr.
Jesse B. Goodgame, sou. engr.
Ray Whitney, sales engr.

The Ridgid No. 161 4" to 6" geared pipe threader will be shown for the first time by Ridge Tool (Booth 439).

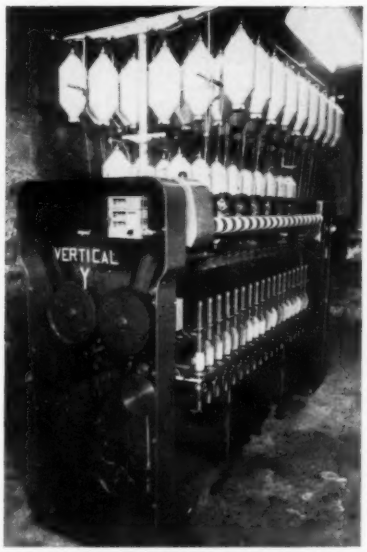
Marchant, in Booth 347, will feature this 10-key fully electrified adding machine.



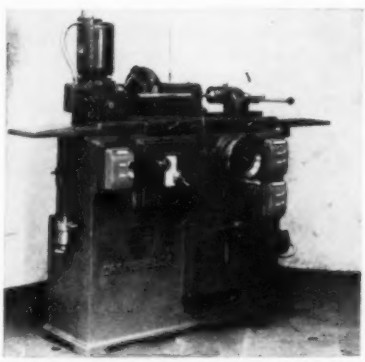
This 38" aluminum section beam will be exhibited in motion by Hayes Industries (Booth 435).



Among Faultless casters to be shown in Booth 470-B is this new machine-faced, semi-steel wheel with grease seals and deep drawn thread guards.

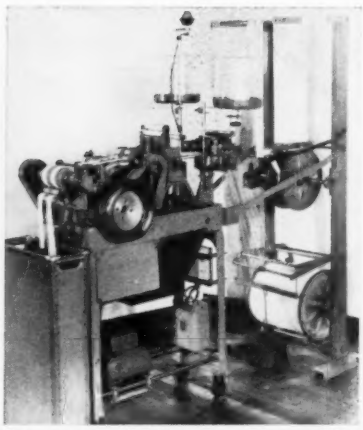


F. A. Young Machine Co. will introduce its 24"-wide Vertical "Y" full antifriction spinning frame in Booth 257.

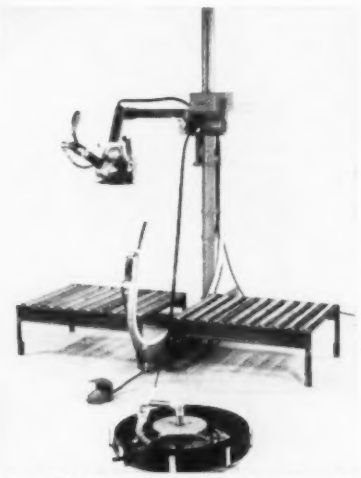


See this Dronsfield No. 270 machine for buffing synthetic-covered rolls in Booth 476.

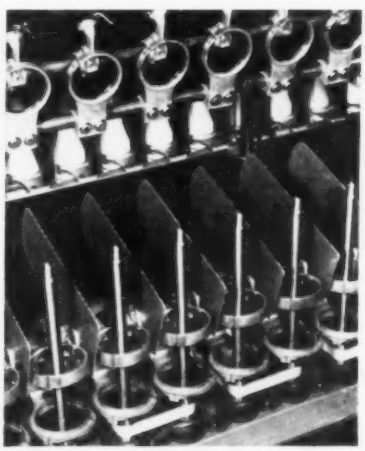
Electronic air cleaners are to be exhibited by Trion, Inc., in Booth 317.



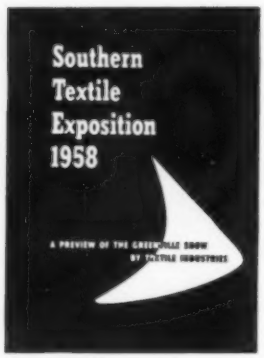
Two narrow fabrics are woven at the same time at a rate of 2800 ppm on this new needle loom to be shown by Crompton & Knowles in Booth 138.



Acme Steel will introduce these items in Booth 517: Model E41 Power Strap Feed Unit equipped with the A4 Steel strapper, and the Model E33 Steelstrap Dispenser (foreground).



New ring holders, tilting separators, and new type balloon control rings are features of the latest Gwaltney spinning frame which will be displayed by Saco-Lowell in Booth 835.



VALVAIR CORP. **318**
(See L. W. Kinnear & Co.)

VAUGHN & CO. **335-A**
Exhibiting: Omark Drive-It powder actuated tools for nailing to concrete or steel; Omark Hammer Drive hand-powered concrete fastening tool.
FIRST TIME SHOWN: See above.
Personnel in booth:
James W. Vaughn, pres.
Dennis P. Vaughn
Dick Norris, reg. mgr. Omark

VEEDER-ROOT, INC. **107**
Exhibiting: Complete line of textile machinery counters—pick and hank counters, loom cut meters, predetermining counters; and all types of revolution and reciprocating mechanism counters.
FIRST TIME SHOWN: High-speed quick-reset predetermining counter for winding and other operations. Direct-reading, high-speed, quick-reset revolution counter which can be used directly on inspection tables and needs only a flick of the finger to reset it.
Personnel in booth:
G. H. Anthony, chm. exec. comm.
A. E. Kallinich, vice-pres.
T. Nelson, e. sales mgr.
F. J. Swords, sou. dist. mgr.
H. E. Manafield, dist. engr.
R. C. Conant, dist. engr.
Quartered at: Poinsett & Catalina Motor Court

VERMONT SPOOL & BOBBIN CO. **128**
(See Watson & Desmond)

VICTOR RING TRAVELER CO. **835**
Division of Saco-Lowell Shops
(See Saco-Lowell Shops)

WALWORTH CO. **352**
Exhibiting: Valves made of rigid polyvinyl chloride (PVC), which provide high corrosion resistance to dyes and other corrosive fluids, will be demonstrated on recycling equipment to show long service life. Representative items from the company's complete lines of bronze, iron, steel, special alloy valves and fittings.
Personnel in booth:

L. J. Parsons	W. A. Austin
S. E. Enright	R. E. Engley
E. W. Edgerton	M. H. Luttrell
B. R. Harwell	G. R. Thomson
L. P. Williams	R. L. White
J. J. Burke	

THE WARNER & SWASEY CO. **834**
Exhibiting: M-3700 Pin Drafter intersecting draw frame with ball delivery; longitudinal ball creel with new mercury switch stop motion; 20" can coiler and turntable with stop motion; new single lever clamp with pressure roll assembly; mural-type schematic diagram depicting operation of the Pacific Converter.
FIRST TIME SHOWN: The wide setover Pin Drafter intersecting draw frame which offers 33% greater pinning area and input capacity than previous models, equipped with ball delivery; machine will be in operation at 1500 faller drops per minute with eight ends up of 3-oz top, drafting 8 and delivering a 3-oz top. A new longitudinal ball creel, which accommodates twelve 18" x 24" packages, will feed the Pin Drafters 60s wool with 1 - 1½% anti-static compound; creel features a new mercury-type stop motion for individual end control.
Personnel in booth:
T. L. Stilwell, sales mgr.
A. F. Barney, adv. acct. mgr.
H. K. Jennings, dist. mgr.
R. E. Schuelke, fld. engr.
Quartered at: Orvin Court

WATSON & DESMOND **128**
Exhibiting: Paper spinning tubes and quills; all types of wooden bobbins, cones, and spools; plastic quills; shuttle fur; paper dye tubes and headless shipping packages.
Personnel in booth:

Pat Desmond	Ed Ball
Clif Watson	Dorsey Lanier
Dick McPhail	Jesse Dodgen
John Wyatt	Jerry Otwell
Ralph Patton	

WAT-DES CORP. **128**
Exhibiting: Maier Prima flyer; R&F spinning and twister rings; Toenniessen taper board yarn inspection machine; Dubo spindle lockwashers.
FIRST TIME SHOWN: Toenniessen taper board yarn inspection machine.
(For representatives, see Watson & Desmond)

WATSON-WILLIAMS MFG. CO. **128**
Exhibiting: Complete line of Watson-Williams shuttles; "Lundstick" Densified picker sticks.
FIRST TIME SHOWN: A new shuttle.
Personnel in booth:
Hubert J. Watson, treas.
J. Kimball Watson, vice-pres.
Ray A. Norman, sales rep.
S. P. V. Desmond, sales rep.
Quartered at Poinsett Hotel
(For other representatives, see Watson & Desmond)

WEST CHEMICAL PRODUCTS, INC. **340**

WESTINGHOUSE AIR BRAKE CO. **366**
(See Livingston & Haven, Inc.)

WESTINGHOUSE ELECTRIC CORP. **423**

WESTINGHOUSE LAMP DIVISION **406**

WEST POINT FOUNDRY & MACHINE CO. **820**
Personnel in booth:
R. L. Mundhenk, sales mgr.
R. V. Lee, dist. sales mgr.
C. G. Holt, sales rep.
Bonner B. Brown, Jr., sales engr.
R. C. Monk, sales rep.
E. B. Morrison, sales engr.
Quartered at: Greenville Hotel

WHEEL TRUEING TOOL CO. **110-B**

WHITING PRODUCTS CO. **323**

WHITIN MACHINE WORKS **804**
Exhibiting: A full-length Whitin Piedmont spinning frame, featuring 27" width, single spindle side shaft drive which eliminates cylinders and tapes, a new type builder motion which together with change gearing is inclosed in the head end, a two-apron drafting system which provides straight-line spinning supplemented by balloon control rings, and built-in waste removal.
Personnel in booth:

J. Hugh Bolton, pres.	
E. K. Swift, Jr.	W. G. Stainton
J. H. Bolton, Jr.	O. G. Murphy
R. I. Dalton, Sr.	H. B. Patterson
R. I. Dalton, Jr.	W. V. Byers
R. J. McConnell	E. M. Kennedy
J. L. Orr	M. W. Keeler
L. M. Hair	H. T. Heathcote
R. W. Dunn	W. J. Dunleavy
J. Calvert	G. F. McRoberts
B. B. Peacock	J. R. Sanderson

WHITIN REPAIR PARTS **508**
Charlotte Div. of Whitin Machine Works
Exhibiting: Repair and replacement parts and changeover equipment. Services and manufacturing facilities of the Charlotte Division will be stressed.
Personnel in booth:

R. W. Rawlinson, repair sales mgr.	
R. J. Cunningham	D. Elms
B. C. Greib	J. D. Stone
R. Taylor	C. M. Banks
J. F. Sumner	R. F. Long
W. E. Cole	E. Hemphill

WHITINSVILLE SPINNING RING CO. **209**
Exhibiting: Spinning and twisting rings, including the Diamond Finish Backslope twister ring, the Anti-Wedge spinning ring, and rings for several types of automatic lubrication systems used in making tire cord, carpet yarns, and glass yarns.
FIRST TIME SHOWN: The Anti-Wedge ring which is designed to permit increased production with elliptical travelers—top of ring is flat to allow more yarn clearance and prevent wedging, inner flange is contoured to the traveler to provide larger bearing contact and greater heat dissipation, and the offset web prevents traveler gorns from touching. The Diamond Finish Backslope twister ring is designed to prevent nylon travelers from flying off during characteristic flexing of the travelers at high speed or with high yarn tension.
Personnel in booth:
Geo. T. Brown, vice-pres.
W. P. Dutemple, sales mgr.
W. P. Shirley, sales rep.
Peter C. Everett, sales rep.
Quartered at: The Colonial Court

T. B. WOOD'S SONS CO. **242-B**
Exhibiting: Card drives, spinning frame drives, timing belt drives, variable-speed drives.
Personnel in booth:
Eldon L. Nuernberger, chief engr.
Robert C. Reese, asst. sales mgr.
Joe Seawell, Jr., Atlanta br. mgr.
Billy W. Parsons, Charlotte sales engr.
Quartered at Colonial Court Hotel

WOONSOCKET NAPPING MACHINERY CO. ..... **East Lounge**

WORLD DRYER CORP. **220**
(See Batson Mfg. Co.)

WRENN BROTHERS **485**
Exhibiting: Hyster fork lift trucks, including one equipped for beam handling, a unit for narrow aisle cotton storage, and a truck equipped with a coated wire mesh container for unitized loads of products in process. Colson casters, floor trucks, and specialized lifters.
Personnel in booth:
Geo. Wrenn, partner
Paul Wrenn, partner
Bill Hammond, salesman
Lamar Bagwell, salesman
Nig Griffith, salesman
Cheves Ward, salesman
Dan Dougherty, salesman
Pat Pfeifer, salesman
Xyl Cail, salesman
Quartered at: Greenville Hotel

WAK INDUSTRIES **335**
Exhibiting: Hank clocks; pick counters; yardage meters (all types); ratchet.
FIRST TIME SHOWN: Electric repeat counter, shift counter, clutch counters, and impulse counters; remote yardage electrical impulser.
Personnel in booth:
J. H. Dougherty
J. L. Cole

THE YALE & TOWNE MFG. CO. **826**
(See Coleman Co., Inc.)

YEOMANS TEXTILE MACHINERY CO. **452**
Exhibiting: Scharer fully automatic bobbin winders, including a winder for general use, one for use with Draper Corp.'s bobbin loading magazine, and a winder for filament rayon with pinboard attachment. A rebuilt loom on Air Loc machinery mounting pads by Clark-Cutler-McDermott.
FIRST TIME SHOWN: The Scharer fully automatic bobbin winder for filament rayon with pinboard attachment.
Personnel in booth:
C. L. Yeomans, pres.
C. H. Turner, treas.

F. A. YOUNG MACHINE CO. **257**
Exhibiting: NYAF full anti-friction high draft changeover; repaired parts, including flyers, spindles, steel rolls of all types, new flyer pressers, new spindles, all types of new steel fluted rolls and twister rolls.
FIRST TIME SHOWN: New Vertical "Y" full anti-friction spinning frame which is only 24" wide, provides straight line drafting and up to 12" stroke, and features new type gearing eliminating 50 per cent of the gears with chain drive.
Personnel in booth:
F. A. Young, owner
E. T. Hayes, salesman
B. K. Wright, salesman
C. J. Webster, engr.
J. E. Lindsay, Jr., asst. engr.
A. J. Haselden, asst. gen. mgr.
Quartered at: Holiday Motel, Greer, S. C.

ZINSER SPINDLE WORKS **128**
Exhibiting: SKF roller bearing top drive filling spindles, warp spinning spindles, and twister spindles, including high speed draw twister spindles.
(For representatives, see Watson & Desmond)

When supervisors complain more, customers complain less

Interdepartmental complaint plan

by Frank Vogel
Consultant on statistical quality control

Exclusive

FAULTY work is made in every plant, no matter how well equipped, nor how efficiently managed. Faulty work is bad for the mill: It reduces production, increases cost, lowers quality, and brings customer complaints.

Now the quality of the end product, the finished goods, can make or break a mill. When the margin of profit over loss is small, the matter of reducing the faulty work is of even more vital importance.

No doubt every supervisor makes an honest effort to keep the faulty work made in his department to a minimum. But more than this is necessary to bring the faulty work down to the irreducible minimum, that point at which all persons concerned agree that, for the moment at least, the undesirable material has been brought to as low a point as is humanly possible.

To get to this point there must be a community effort, so to speak, by the supervisors of every department in the mill. Only by working together can the desired objective be attained.

The writer has found that one of the best means for bringing about this desirable state of affairs is the interdepartmental complaint.

Making the Complaint. This is not a complicated affair. The system is easy to install, simple to operate. A pad with numbered, duplicate sheets is supplied to each department. *Figure 1* shows the style of the pages. When a complaint is to be made out, the supervisor, or some person delegated for this work, fills in the blanks for department and date, the name of the department or section to which the complaint is to be directed, and the subject of the complaint.

For example, let it be assumed that the winding department receives some tangled bobbins from the spinning department. The yarn on each of, say, 12 bobbins has been pulled over the top, and will have to be removed before the bobbins will work satisfactorily on the winding machines. The complaint form is filled in as per *Figure 1.*

The winding operatives, by the way, have been trained to report any faulty work which comes in their lots of spinning bobbins. The supervisor, or clerk if this person handles the supplying of yarn to the winders, picks up the faulty bobbins and the supervisor makes out the complaint.

Simple enough, isn't it? Yet this form, along with the bobbins, will go to the spinning department where it will be brought to the overseer's attention. At the same time, the winding department has a copy in its complaint book as proof of the transaction.

There is thus no need of argument about the bobbins in question. If the spinning department supervisor feels that any of the complaints, at any time, are un-

Figure 1. Interdepartmental complaints are made on this form.

DEPT Winding 21

DATE Jan. 2

TO Spinning DEPT

COMPLAINT

Tangled

12 Bobbins #30

FOREMAN J. H.

JOURNAL

COMPLAINTS TO SPINNING DEPT.

FROM	DATE	COMPLAINT
Winding	Jan 2	12 Tangled Bobbins 30s
"	" 3	10 Partly Filled Bobbins 20s
"	" 5	6 Oily Bobbins 20s
"	" 8	100 Bobbins Mixture 20s & 30s

Figure 2. Complaints are recorded by department in a journal at a central point.

justified, he simply holds the questionable complaint form and material until the superintendent or manager makes his rounds and then voices his objection.

Should the superintendent believe that the complaint is really unjustified he merely writes "Unjustified" on the complaint form, initials it and returns it along with the bobbins, or whatever the material may be, to the department which issued the complaint.

On the other hand, the superintendent may consider that the matter involves a point which would best be portrayed if all the supervisors were present, say at a weekly meeting.

The illustration of the faulty spinning bobbins received by the winding department from the spinning department is used for its simplicity. However, every department in the mill or plant should send back to the preceding department any legitimate complaints.

Introducing the System. It may be found at the beginning of the introductory period of the inter-departmental complaint system that some departments will put up a decided argument against complaints from the subsequent process. However, with a little tact this matter can soon be straightened out.

It was interesting to listen to a dispute, a bit humorous, a little vehement, in which some of the overseers at a weekly meeting pointed out that the man in the last, the finishing department, had the edge over his fellow overseers in that he could make out complaints to all the other departments but that they could not make out complaints against him.

The superintendent, who had listened to the good-natured bantering with considerable interest, smilingly picked up the phone and gave some instructions. In a few minutes a clerk came into the room bearing some papers.

The superintendent scanned each of a dozen papers, then addressed the group: "Gentlemen, you see these papers in my left hand? They are customer complaints and all are against the finishing department. The few in my right hand are also customer complaints which, while valid against the finishing department, are for faults in our product that were put in before they reached the last department. They were not caught there and therefore are black eyes against that department."

This ended the "digs" at the finishing department, and energized the efforts of the other departments to prevent faulty products made in their departments getting into the following departments, and above all, into the finishing department. And, as a result, the imperfections went into a general decline throughout the plant.

Before the introduction of the inter-departmental complaint system, one large mill had trouble getting foremen to report faulty goods received from another department. There was a reluctance to "squeal." There seemed to be an unwritten law not to get the other fellow into trouble. Friendship was the cause in some cases, fear of reprisals in others.

Top management made a determined effort to overcome this roadblock. Education, through weekly meetings, gradually broke down supervisor resistance. It was pointed out, and very successfully, that reluctance to report faulty work caused it to get out on the market, and eventually everybody—the mill, the operating executive staff, and the workers—became the losers.

When top-level management is sold on the interdepartmental complaint plan, it is practically certain that acceptance of the system will, with a little education, seep down to every grade of supervision.

One almost foolproof method of keeping the system operating at high-octane speed is for the superintendent to hold a weekly meeting of overseers in one of the mills where the current faults made in each department can be shown and complaint forms distributed.

The meeting need only be for a brief period and, say, right after the luncheon hour. This keeps the overseers keyed up in regard to the faults. It entails some possible sacrifice of convenience but it assuredly does pay big dividends.

Central Complaint Record. One mill found it of advantage to have a central point to which the interdepartmental complaints could be sent and at which place the complaints could be recorded in a journal, *Figure 2.* The material, unless very bulky, is sent along with the complaint form, and both material and form go out from this central point to the designated department. Everything moves expeditiously.

When a complaint is of such a nature that the head of the department receiving the faulty material deems it an emergency he phones the head of the other department. Then, after marking on the complaint form, "Mr. X immediately notified," sends the form with a sample of the faulty work to the central station for dispatching in the normal way. Thus the system continues to function properly, and no time is lost in correcting the untoward condition by the department at fault.

Once a month a report is made up at the central station for the superintendent. It shows the total complaints for the month along with a comparison of the average monthly interdepartmental complaints for the current year, and the average per month for the past year. This report is discussed at the supervisors meeting.

Once every quarter at a meeting the superintendent hands out dittoed copies of a report showing the number of complaints for the three months' period for each department against the number for the same period of the past year. If any department shows a marked variation in the number of complaints from the previous year, the overseer tells how the faulty work was reduced, or, if it has gone up, he cites the causes for the increase and the steps he is taking to bring them down again.

At the end of the year the interdepartmental complaints are shown on a graph line for each month of the year in conjunction with the graph line of customer complaints.

What poor cotton bales cost the mill

■ DURING the last few years the domestic cotton industry, the U. S. Department of Agriculture, and others have been concerned about criticisms of the American cotton bale package, and have made concerted efforts to improve the package. As a part of this effort, the Agricultural Marketing Service began in 1955-56 a fairly broad study of the problem.

Cost information was obtained from 114 representative mills. From these, it is estimated that in 1956 the preprocessing cleaning operations cost American mills about 25 cents for each bale cleaned.

All domestic mills have at least some preprocessing costs not associated with bale cleaning, from either the condition of the bales or from cotton sticking to bale covers when they are removed. These costs are estimated at 20 cents per bale, with a range of 4 cents to 68 cents among the mills surveyed.

The total preprocessing costs to American mills attributable to the faults of the bale package were estimated at $3,000,000—a little over 33 cents per bale.

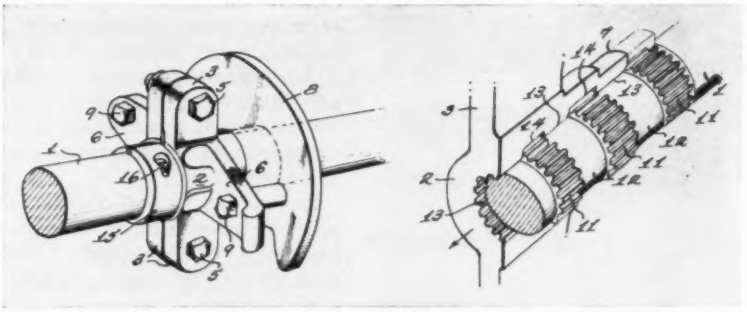
This estimate does not include any extra processing costs resulting from the poor bale package, or reduced value of yarns and fabrics from contamination by jute fibers or tar spots. It does not include differences in costs of transportation, handling, and fire losses, nor of the costs to foreign mills.

Abstracted from Marketing Research Report No. 253, by D. G. Lafferty and Maurice R. Cooper of the Agricultural Marketing Service, U. S. Department of Agriculture.

New loom hub construction prevents slippage

■ A NEW type of pick cam hub for loom cam shafts is designed to prevent slippage, once the cam is set and timed. Some old-type hubs may slip around the circumference of the shaft, thereby allowing the cam to get out of time. This condition causes the loom to bang off, along with additional difficulties.

The patented hub construction employs a splined shaft and mating parts for the two-piece hub. Splines on the shaft are interrupted at intervals to match the hub construction so the hub may be moved as desired completely around the shaft merely by unlocking the hub and sliding the splines out of engagement in order to rotate the hub to another setting. Movement along the shaft engages the splined surfaces of the hub and shaft, and a locking collar keeps the splines engaged.



Details of the new hub construction, taken from the patent specifications.

The device greatly simplifies cam adjustments and makes cam setting more positive. Old-type cam shaft gears may be removed and replaced with this patented arrangement with a minimum of trouble, according to A. M. Pressley of Concord, N. C., who holds U. S. Patent No. 2,838,329 covering the construction.

Working under a magnifying glass with tools especially made for each pattern, the die cutter engraves one repeat of the pattern, which has been outlined in color, on the die (above, left). "Raising the mill": The engraved (intaglio) design is transferred to a mill, a multiple of the die in size, on the clamping machine (right). An acid-resistant wax is applied to the mill, which is positioned above the engraved die. As both revolve, the wax collects and adheres to areas on the mill outlined by the engraved areas of the die. Alternate clamping and treatment in acid solution, which etches unprotected areas of the mill, gradually prepare the pattern in relief.

MILL ENGRAVING

For sharp reproduction of fine-line patterns, Cranston Print Works calls on its own staff of mill engravers

Staff prepared Exclusive

ALTHOUGH mill engraving is largely done by hand, requiring that many exacting skills be carried out in sequence, it has no equal in fine line engraving. Through skillful control of engraving depth, it affords delicate shade contrasts in printing; thus, intricate fabric textures and colored woven fabric designs can be adapted for printing, with sharpness of fine detail assured.

In earlier years at Cranston Print Works, Cranston, R. I., mill engraving was chiefly used in printing men's shirting. While this still remains a Cranston specialty, particularly in duplex printing, mill engraving now finds great use in sportswear and dress goods printing as well.

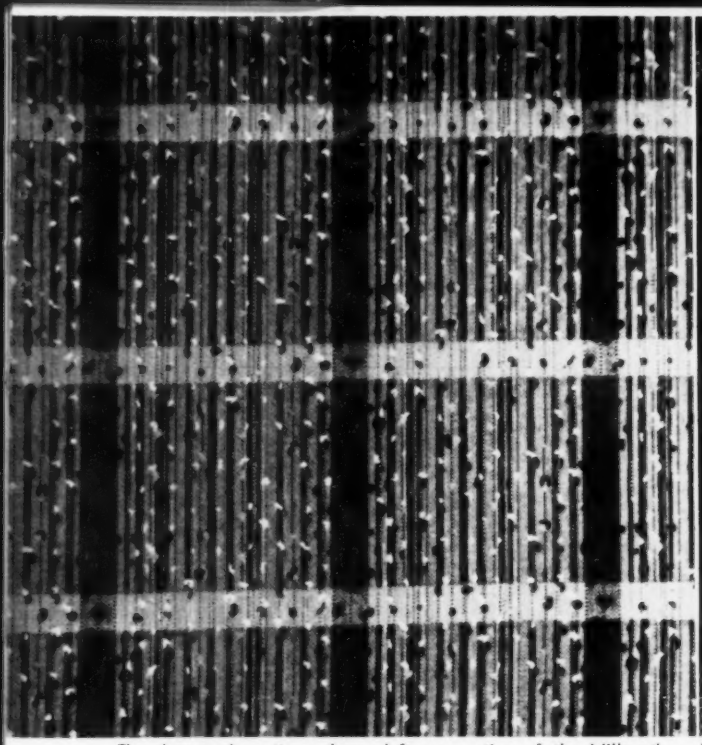
In this highly skilled engraving process, three distinct trades are practiced by specially trained men who have served seven-year apprenticeships before becoming full-fledged journeymen. It would be hazardous to say which of the three basic engraving procedures ranks highest in importance, for final success is dependent on each, with over-all supervision playing an important part.

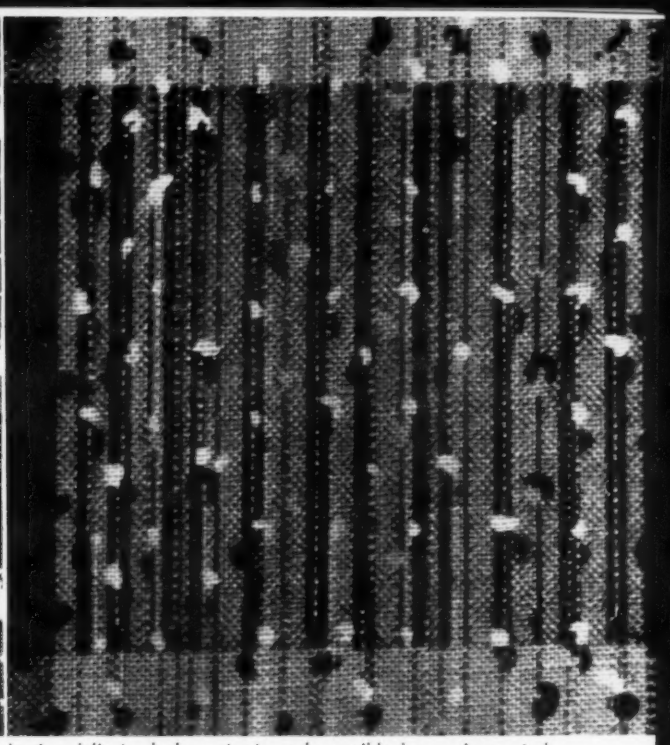
Die-Cutting. An important preliminary phase of die-cutting is in adapting the pattern for mill engraving. First, the pattern is reduced to a repeat. In the case of a pattern adapted from a weave, such as the one illustrated on these pages, the ultimate goal is to achieve accurate reproduction of the predominant characteristics of weave and fabric texture in printing.

This requires the proper engraving tools. As a guide to his selection the die cutter makes a trial die. If necessary, the punches or chisels which are to be used in cutting the die are specially made from master dies to suit the job's particular requirements.

These punches vary principally in the number of indentations on their fine points, and the die-cutter skillfully uses the correct size punch in order to achieve accurate pattern reproduction on the fabric with trouble-free printing.

When the problems have been worked out on the trial die, the pattern repeat, now suitably modified, is copied onto a sheet of gelatin with a steel-pointed tool which creates a burr at the point of contact. The drawing thus produced is then rubbed with color,





The dressgoods pattern above, left, a creation of the Millworth Converting Corp., was adapted for printing from a shagbark weave. The fine detail is typical of that which is best reproduced by mill engraving. Solid black lines are pantograph engraved. The right photo is a close-up of the same pattern, about twice actual size, showing delicate shade contrasts made possible by precise control of engraving depth through skillful use of punches and tools made expressly to bring out predominant characteristics of the original shagbark design. The pattern is a two-roller job on a dyed ground. The small white areas, which are discharges, are also mill-engraved.

which adheres to the raised surfaces of the gelatin sheet to form a detailed outline of the pattern.

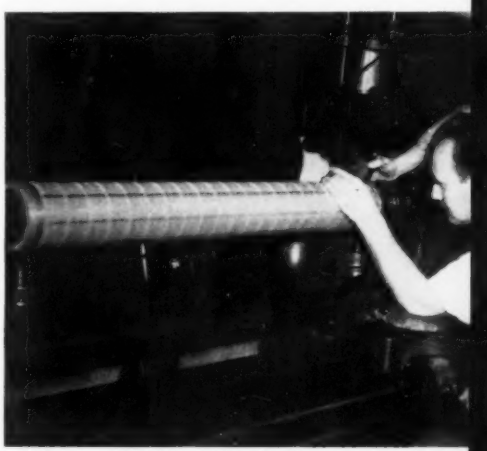
The gelatin sheet is then tightly wound around the die, which has previously been coated with a varnish, to leave a colored impression of the individual pattern areas which are to be engraved or punched. Designs of a geometric nature are arranged on either an index die machine or scaled by standard pins which have previously been run on the die. These very fine pin indents are squared off both vertically and horizontally and are various scales per inch.

Years of experience in die-cutting can perhaps best explain the remarkable control of engraving depth that is achieved: It dictates the proper amount of force required in punching to create the desired effect upon printing.

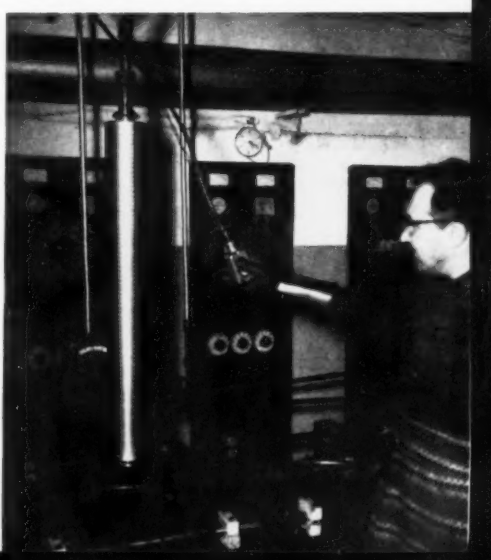
An important factor which determines depth of engraving required is the style of printing. Resist printing requires deeper engraving than ordinary printing, while discharge printing requires an even deeper though narrower engraving.

"Raising the Mill." After the die has been cut, it is case-hardened (since it is made of soft steel) under high heat for a prescribed period of time. It is then turned over to a clamper, who is a specialist in the process known in the trade as "raising the mill." This process begins with the application of an acid-resistant wax to the mill, that has been correctly positioned above the die (see photograph), while both are revolving under pressure of the clamping machine.

The wax is retained by the mill (a multiple size of the die) within the areas outlined by the engraved areas of the intaglio design, with the excess wax being squeezed to the sides. While this appears to be



Right, above: Final transfer of pattern to copper roll is also a specialist's work. A trial run has shown best conditions for engraving, and correct copper roll size required. Machine engraver then applies proper pressure to casehardened mill, which forms pattern impression in copper upon turning.



Right, below: A protective coating of a chromium compound is deposited on the copper roll in an electrolytic cell. The process is carefully controlled (note instrumentation in background) to assure uniform plating, with time of immersion carefully observed.

a simple operation, in actual practice it requires much skill for accurate transfer of pattern.

When pattern transfer has been completed, the mill is taken out of the clamping machine and immersed in an acid solution, where etching of the unprotected (unwaxed) areas of the mill takes place. It is taken out after a suitable time and the entire process repeated, perhaps several times, until the mill has been gradually raised, the pattern emerging in relief. The mill is then returned to the die-cutter for final trimming, after which it is case-hardened.

Machine Engraving. A trial engraving is first carried out, enabling the machine engraver to work out the many important details which insure successful printing. Correct copper roll size is determined, and consideration is given to spacing between repeats.

The best possible conditions for engraving are also worked out and pressures required to achieve a uniform impression in the copper are established. During the final machine engraving, the engraver makes frequent observations under a magnifying glass to insure that this uniformity is being maintained.

When engraving is complete, the roll is sent to the chromium-plating department, where it is uniformly coated with a chromium compound by an electrochemical process at a carefully controlled rate.

Results Offset Costs. Although the costs of mill engraving are high, they are more than offset by the results obtained in superior quality of printing. In fact, Cranston management gives preference to this method of engraving even in instances where photoengraving would be satisfactory.

For one thing, mill engraving offers greater uniformity in large volume printing. Moreover, there is the advantage of having engraving facilities and experienced engravers on plant premises to afford a closer working liaison with the printing department.

And perhaps the most decisive factor for its continuing use is the success Cranston has had for well over half a century of mill engraving.

"What quality control has done for our mills"

by Lane C. Drye

Linn Mills Co.

Extract*

■ WE CAN pinpoint the day and the hour that we learned there is no piecemeal or part-time solution to the problem of manufacturing premium quality yarns.

In December, 1953, our general superintendent returned from a 2500-mile circuit of our regular customers with the report that 75 per cent of our customer relations were in jeopardy.

In belated response to the demands of our customers, we began a maximum-effort quality control program which we now consider to have been a success.

We arranged for the services of a consultant, and under his guidance and using his equipment, we completely reorganized our testing procedures. Initially, little routine testing was possible, and all available efforts were directed to pinpointing and eliminating specific trouble spots.

Later, as we saw favorable results from our work, we equipped our own laboratory and hired our own laboratory specialist.

THE NEW laboratory and the entire quality control program was made a part of the standards department, as a staff function, under the direct control of the presidents of the companies. The laboratory is staffed by one full-time technician under the supervision of one man who gives about one-third of his time to the laboratory function. Mill personnel continue to make daily size tests; but, apart from this, the laboratory makes all the routine tests prescribed by the sampling program.

The sampling plan is designed to be accurate within a 3 per cent sampling error with a 1 per cent sampling risk. In addition, the laboratory plays a major role in guiding experiments for the revision of processes, evaluation of new equipment, and for the testing of competitors' products.

IN THE opening operation, floor space has been almost trebled, permitting our opening high density bales 24 hours ahead of their use; and where 20 bales formerly provided our mix, we now blend from 60 bales simultaneously. Production rates required of our opening equipment have been reduced by half their former requirements. By the addition of more hopper feeders in each opening room and by installation of cleaners following each hopper, the raw cotton is opened and bloomed to an extent where the cleaning equipment can do a more effective job of trash removal without adversely affecting nep count.

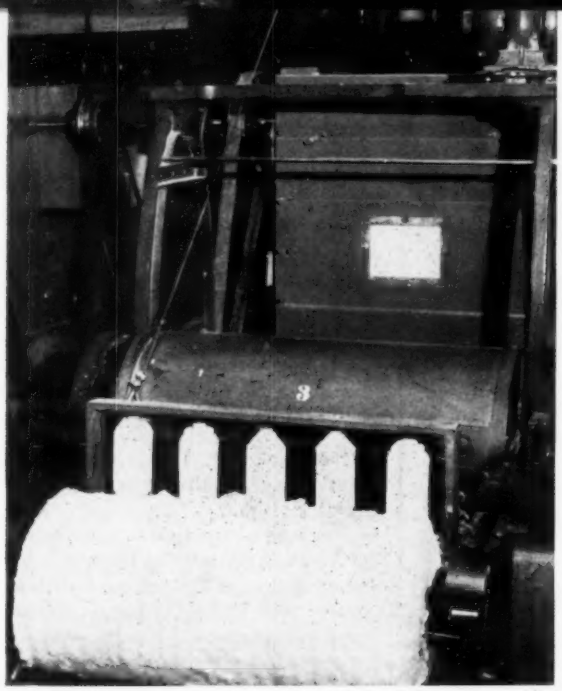
Picking equipment consists of three-beater pickers with blending reserve, modified through the use of different pitch calender roll gearing, pneumatic lap racks, and fringe rolls. An effective scheduled maintenance program has contributed to reducing the per cent maximum variation of our picker laps from an original 18-20 per cent to a consistent 8 per cent, with a range of 1 oz yard-to-yard weight variation in a 55-pound lap. An electronic moisture regain indicator, installed on each picker line, has reduced drawing sliver changes to an appreciable extent.

Standardized settings and schedules among all card grinders has reduced our "foreign material" count to 13-18 per 100 square inches of card web. Flats are now ground on a 3 to 1 ratio with the other card clothing. Laying of picker laps on alternate cards and the vacuum stripping of alternate cards on a two-hour cycle has lowered the sliver variation between cards and has substantially reduced thick and thin places due to piecings.

Comber preparation is now being done on a drawing-lap winder combination. Combing has been improved both in quality and production through the installation of new combers, producing at the rate of 50 lb per hour. Noil waste percentages

(Continued on Page 280)

*From a paper presented at the eighth annual conference of the Textile Division, American Society for Quality Control.



If lap splitting occurs, during carding of dynel Type 63, a split-lap preventer can be used, or several ends of roving can be fed into the lap as is shown being done in this southern-mill picker room.

How to make cotton-dynel high-bulk yarns

to make full use of the high shrinkage of dynel Type 63, these mill-proved techniques should be used in spinning, knitting, dyeing, and finishing

by J. O. Davis
and C. A. Strodl
Textile Fibers Dept.
Union Carbide Chemicals Co.

Exclusive

KNITWEAR with more bulk has been received with increasing enthusiasm by retailers. A new approach to this market is underwear and children's sleepwear made with blended yarns of cotton and dynel Type 63, controlled high-shrinkage staple fiber.

Principal among the reasons cited for the favorable response to bulk fabrics are the added counter appeal in improved appearance and hand, better serviceability, and most important, good covering power with less garment weight. The factor of "warmth without weight" is especially worthwhile in the sales promotion story.

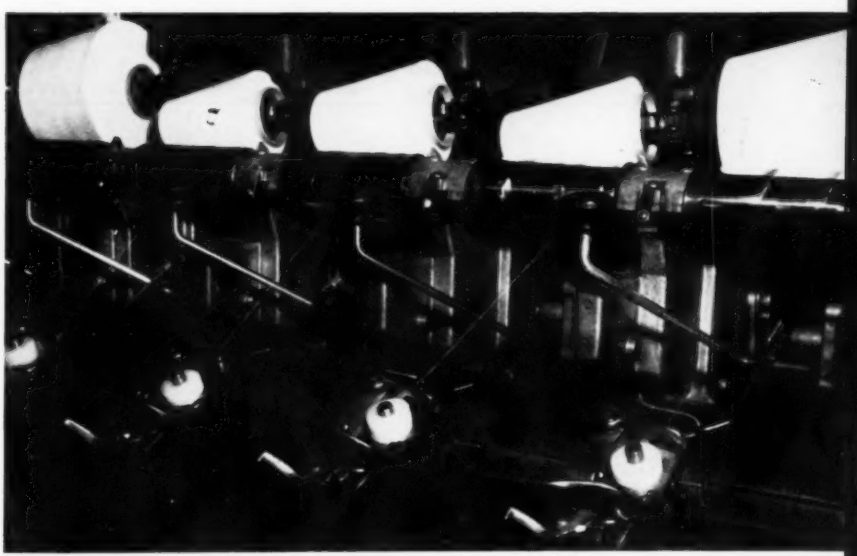
Dynel Type 63 and cotton yarns, in 25% dynel, 75% cotton blends, are currently being used in children's sleepers and men's underwear.

The significant basic characteristic of dynel Type 63 is its high fiber shrinkage of 25% which is taken up in a boiling bath to produce a stable fabric.

Because proper utilization of this important factor determines optimum quality of finished bulk fabrics, certain established techniques should be followed in the production of blended yarns as well as in knitting, dyeing, and finishing. For example, combed cotton is generally used for blending with Type 63 dynel, so blending is done during drawing.

Opening and Picking. Type 63 dynel is shipped in a moderately opened condition and does not require the use of opening machinery. It is good practice to allow the fiber to "bloom" by removing the bale strapping and letting the bale contents remain without compression for several hours.

Standard picking conditions on dynel should be followed on either a one- or two-process picker. Lap weights of 12 to 14 oz per yd with



Waxing during winding of cotton/dynel Type 63 yarns will improve knitting efficiencies.

Speeds and Settings for Flat-Top Cards

Licker-in to cylinder	0.007"
Licker-in speed	250-450 rpm
Licker-in to screen, front	0.029"
nose	0.187"
Feed plate to licker-in	0.010"
Flats to cylinder	0.015"
Back knife plate to cylinder, top	0.029"
bottom	0.029"
Front knife plate to cylinder, top	0.022"
bottom	0.029"
Cylinder to screen, back	0.029"
center	0.068"
front	0.187"
Cylinder-wire size	100s
Flat-wire size	110s
Doffer-wire size	110s
Doffer to cylinder	0.005"
Doffer to doffer comb	0.010"
Flat speed	1.87"/min
Fancy roll speed	1440

Roll Settings for Drawing Frames

		1¼" Staple Inches	1½" Staple Inches
3-over-4	(1⅛" front roll)		
	1st to 3rd	2⅝	2⅝
	3rd to 4th	1⅝	1⅞
4-over-4	(metallic rolls)		
	1st to 2nd	1⅜	1⅝
	2nd to 3rd	1½	1¾
	3rd to 4th	1⅝	1⅞

Roll Settings for Roving Frames

		1¼" Staple Inches	1½" Staple Inches
Saco-Lowell FS-2	1st to 2nd	2	2¼
	2nd to 3rd	1⅝	1⅞
Whitin Interdraft	1st to 2nd	1⅜	1⅝
	3rd to 4th	1⅝	1⅞
Standard draft frame	1st to 2nd	1⅜	1⅝
	2nd to 3rd	1⅝	1⅞

a total weight of 30 to 35 lb are desirable.

If lap splitting occurs during carding, there are several procedures which should help. The dampers can be regulated to deposit the bulk of the stock on the top screen in the finisher section of the picker. Calender roll weight can be increased while lap rack pressure is reduced. A split-lap preventer can also be used or several ends of roving can be fed into the lap.

Speeds and Settings for Pickers

Breaker beater (Kirschner)	800 rpm
Finisher beater (Kirschner)	900-1000 rpm
Fan speed (breaker section)	1300-1400 rpm
Beater to feed rolls:	
1¼" staple	¼"
1½" staple	5/16"
Beater to stripping plate	1/16"

Carding and Drawing. Although dynel Type 63 and cotton can be blended by any of the conventional methods before processing, it is generally advisable to card them separately and blend them at the drawing frame. The cotton, of course, should be processed into sliver by conventional methods: combed cotton is usually used in blends with dynel.

Dynel Type 63 with a staple length of either 1¼" or 1½" can readily be blended with cotton, but maximum control of all fibers in the blend is obtained with 1¼" dynel.

The fiber denier marked on the bale of dynel is the denier of the fiber after bulking. A bale of nominal 3-denier dynel Type 63, for example, will actually contain 2.3-denier fiber. This is the denier that governs the conditions of carding.

Because of the fine actual denier of Type 63 dynel, the fiber should be carded on a flat-top card with a fancy roll. If 1½" fiber is to be used rather than 1¼", a fancy roll is mandatory to avoid very short cylinder stripping cycles.

In general, the flat-top card settings are similar to standard settings for cotton. Dynel, however, does not require vigorous carding for cleaning or waste removal, so flat-to-cylinder settings should be kept more open than for cotton. High licker-in speeds are often helpful in the even distribution of well-opened fiber to the cylinder.

Blending. Blending of the cotton and dynel is accomplished at the first drawing. At least two drawing operations are preferred for an intimate blend. The 3-over-4 and 4-over-4 drawing frames, with either cushion top rolls or all metallic rolls have been found to perform satisfactorily.

Roving. Long draft roving frames are generally best for processing dynel blends. Standard draft frames can be used, but may impose limitations on roll settings. Normal operating conditions for cotton should be followed, although tensions and roving twist should be held to a minimum.

A twist multiplier of about 1.00 is recommended for a blend of 25 per cent Type 63 dynel with 75 per cent cotton.

Spinning. Yarns of cotton blended with Type 63 dynel must be spun finer than the count desired when goods are finished. This is, of course, because of the marked increase in yarn size which occurs

during the bulking process. These yarns can be expected to shrink from 25 to 40 per cent, depending on such factors as twist, yarn count, and ply. Two-ply yarns shrink more than singles yarns.

Although standard draft frames can be used in spinning blends of cotton and Type 63 dynel, long draft frames spin most efficiently. The most important variation from standard conditions is that the blend be spun with the lowest possible twist consistent with efficient spinning and knitting. A twist multiplier of 3.00 is recommended for the 25:75 blends of dynel Type 63 and cotton.

Winding. It is recommended that dynel Type 63-cotton blended yarns be waxed during winding to improve knitting efficiencies.

Knitting. In order to compensate for the shrinkage which occurs during bulking, a very loose knitting stitch must be used. Because of this important factor, it is recommended that before proceeding with a run, a small sample be knit, seamed on each end, placed in boiling water for five minutes, and checked for hand and appearance.

If the sample is boardy, the stitch must be loosened further; if the fabric is too sleazy, the stitch must be tightened. In testing samples, temperatures should be kept as close to the boil as possible to assure maximum bulking. Proper experimentation will determine the correct construction for any particular fabric.

When knitting bulk yarns it may be necessary to use the next coarser cut machine than is used for regular blended yarns. Higher knitting productivity can sometimes be realized as a result of knitting the longer loops of the looser stitch.

Bleaching. Bleaching is necessary if the finished fabric is to be white or a pastel shade. A sodium chlorite bleach is most effective, although for pastel shades, a hypochlorite or peroxide bleach, which will only bleach the cotton, is generally acceptable.

If the fabric is not to be dyed, a part of the bleaching procedure must include a vigorous boil in order to obtain maximum bulking. A long bath should be used to minimize the possibility of stretching the fabric as it travels from the bath over the creel.

In a typical bleaching procedure for cotton - dynel goods, the bleaching bath is made up to a bath ratio of 30:1, with water at not over 120 F to start, containing 2% Tergitol[1] wetting agent, 4% sodium pyrophosphate, and 2% predissolved Chemical CIV[2]. 5% sodium chlorite is dissolved separately in water and 4/5 of this solution is added to the bath and run briefly. All these percentages are based on weight of goods.

Sufficient 70% nitric acid is used to bring the pH of the bath to 3.2 - 3.6. The acid is first diluted by adding it slowly to at least 10 times its volume of water, then the diluted acid is added to the bath.

For bleaching, previously scoured goods are introduced and the bath is raised to 200-205 F over a 30-min period and run at this temperature for 45 min. The remainder of the sodium chlorite solution is added and the bath run for 15 min at a vigorous boil (208-210 F).

The bath is cooled very slowly, the goods are rinsed, and, in a new bath treated with 2% sodium bisulfite based on weight of the goods, as an antichlor. The antichlor bath is run at 140 F for 10 min, and the goods are again well rinsed.

For finishing whites, Calcofluor White RW[3] in a percentage of 0.05 based on weight of the goods is dissolved in alcohol, added to the bath, and the bath is run at 200-205 F for 20 min. The bath is then cooled slowly to 130 F and dropped. A fresh bath is prepared at 100 F, the desired finish, such as any good cationic softener, is added and the bath run at 110 F for 10 min, when the goods are removed and dried at a temperature below 200 F.

Dyeing. If the fabric is not first bleached, bulking will occur during the dyeing process. For this reason, a major consideration in dyeing is that temperatures be maintained as close to the boil as possible to obtain maximum fiber shrinkage.

A long bath should be used to minimize any stretching of the fabric as it travels from the bath over the creel.

Finishing. Finishing operations are routine and can be handled in the same manner as for regular dynel-cotton blends with one extremely important exception, that is, nowhere in finishing must excessive tension be applied to the fabrics containing dynel Type 63, as it will result in permanent deformation.

If possible, it is recommended that the fabric be centrifuged instead of pressure extracted to avoid tension.

Drying should be accomplished at a temperature not over 200 F in a loop dryer.

Bulked fabrics are more easily napped than regular fabrics and usually give a much more even and attractive cover. It is suggested that optimum napping conditions be determined on a small sample before going ahead.

A final caution to be noted: During steam calendering, damage may result if the bulked fabric is subjected to prolonged hold-ups or if tension is applied.

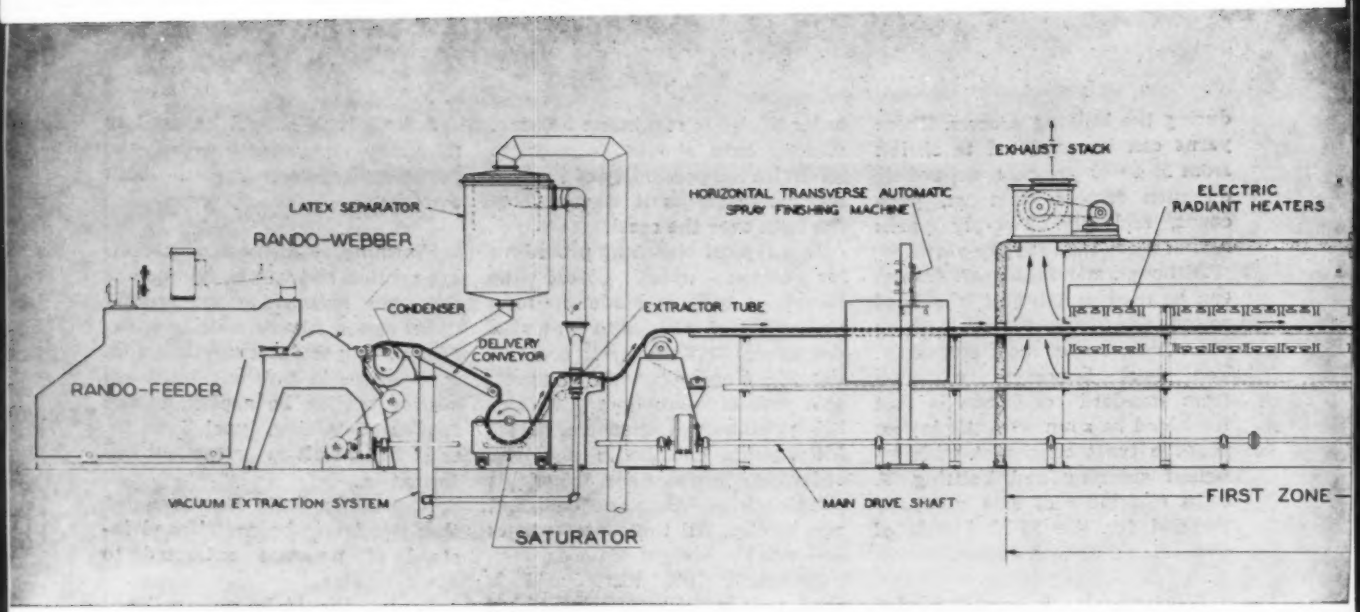
1Union Carbide Chemicals Co.
2Verona Chemical Co.
3American Cyanamid Co.

Wool spindles fewer and fewer; South inches up

■ WOOLEN spindles in place in the U. S. decreased 1 per cent from December 31, 1956, to December 31, 1957, and dropped 30 per cent from the June 30, 1953, level. Woolen spindles in carpet and carpet yarn mills fell 4 per cent during 1957.

Worsted spindles in place on December 31, 1957, were 12 per cent fewer than on the last day of 1956, and 57 per cent below the number in place on June 30, 1953.

While New England lost 10 per cent of the 709,697 woolen and worsted spindles it had in place on December 31, 1956, the southern states gained about 58,000 woolen and worsted spindles during the year. Since mills in the Middle Atlantic and North Central states also posted losses, the spindles in place in the South increased from 23 per cent of the U. S. total in 1956 to 32 per cent in 1957.



NONWOVEN FABRICS IN ONE

Nonwoven fabric range combines web forming, latex saturating, drying, curing, and winding into one unit

by Howard D. McCall
J. O. Ross Engineering Division
Midland-Ross Corp.

Exclusive

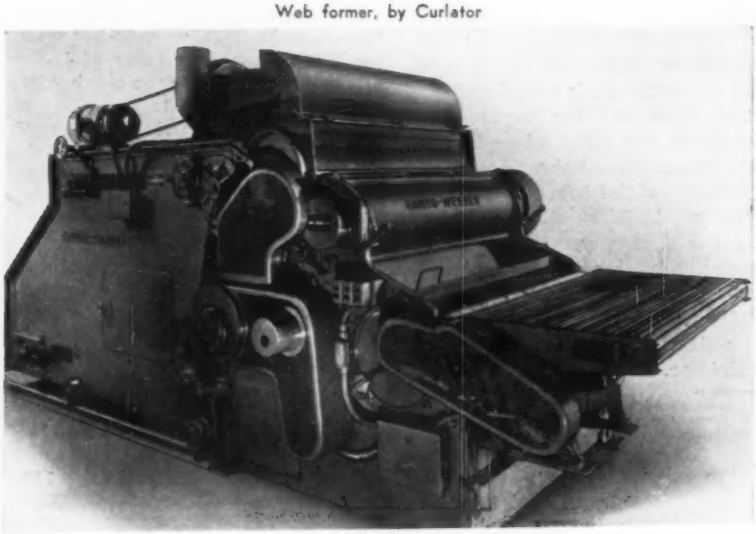
THE LAST few years have seen many outstanding advances in the equipment available to produce a finished nonwoven fabric. With the industry moving as fast as it has, many manufacturers have been working towards the day when a pushbutton range would be available—one which would be completely automatic from the point the fibers are introduced into the range until the goods are wound up, inspected, and prepared for shipment.

Each of the phases of such a range presents problems, such as proper fiber blending, various combinations of binder and fiber, the proper drying and curing temperatures, etc. The modern nonwoven plant has items on the market which cover a range of a thousand or more combinations of fiber and binder and curing times. All of these have to be worked out, tested, and a product produced and further field checks made before a finished product is acceptable.

Now, through the joint efforts of three divisions of our company, a complete line is being offered for use with the random web process. This line is offered as a turn-key job, complete with web former, latex saturator, drying, curing, wind-up, and mechanical drive for the unit.

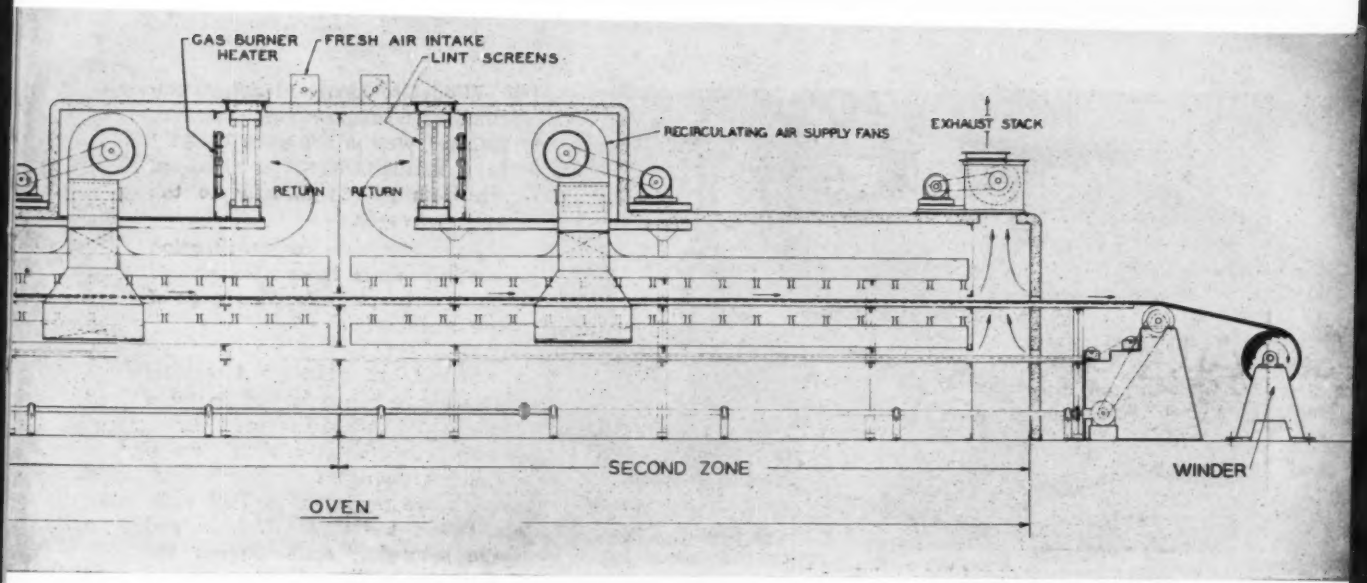
The range shown in the sketch above is in successful use both in pilot plant operation and production operation in several of the large nonwoven producing plants.

Web former, by Curlator



Forming the Web. The stock, in dry fiber form, is placed in the hopper of the Rando-Feeder, which produces a uniform feed mat through a series of airflow devices. From the feeder, the mat goes to the Rando-Webber.

At the Rando-Webber, the mat is fed by feed roll into the concave surface formed by a nose bar, where compression takes place as the fiber mat is fed over the top



STEP

of the nose bar into the path of the teeth on the licker-in cylinder. The individual fibers are removed from the mat by the tips of the licker-in teeth.

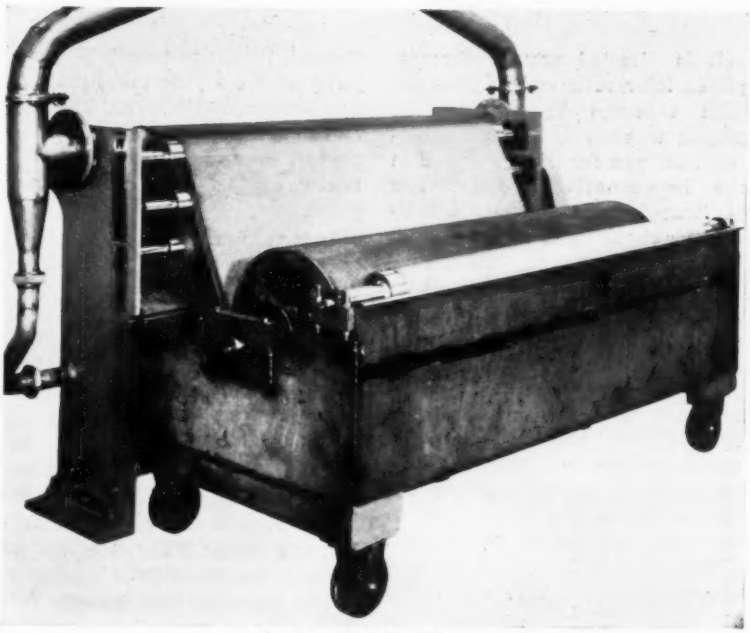
The fiber is carried by the teeth to the high-velocity air stream formed by the throat of the venturi-shaped duct. At this point the fibers are swept from the teeth by the air stream on the downward side of the licker-in. The material, in fibrous form, is again air-borne and is deposited on the condenser for forming the web.

By allowing the air to pass through the circular screen into a closed duct system, the fibers are laid at random on the revolving condenser screen. The result is a continuous random web flowing from the condenser screen to the delivery conveyor.

A wide range of weights can be processed, varying from paper-thin to approximately 2″ thick, by a simple adjustment of the variable drives.

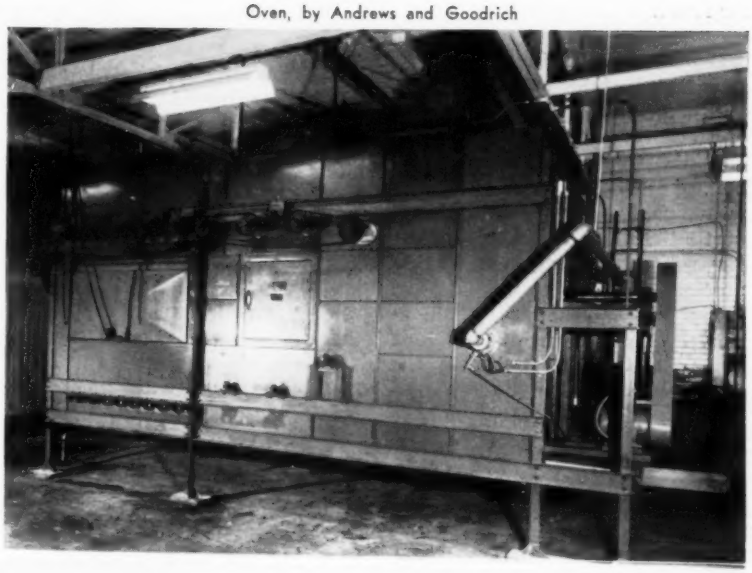
Saturator. After the material has left the Rando-Webber, it is carried by a short, slat-type conveyor directly to the saturator. The impregnation of the web is carried out between a continuous stainless steel wire mesh belt and a stainless steel perforated drum.

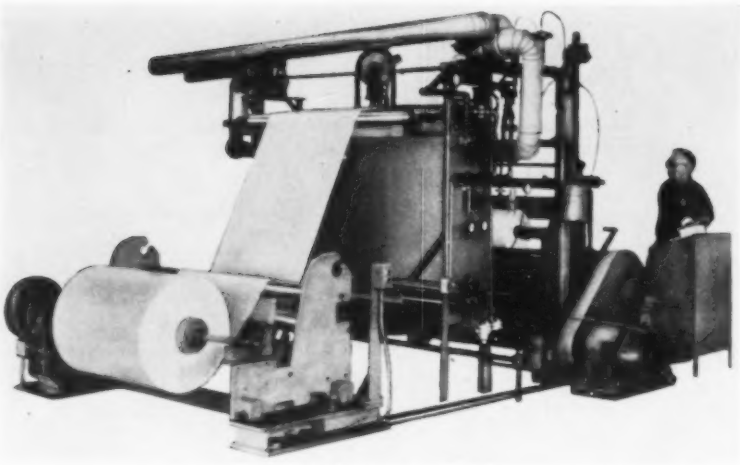
The stainless steel wire mesh



Saturator, by John Waldron

Oven, by Andrews and Goodrich





Avisco web conditioning unit

belt is directed around chrome-plated idler rolls and is provided with take-ups to provide the proper tension. There is a stainless steel pan for the resin used in the impregnating process. The perforated drum is easily removable for changing of the wire mesh belt and the drum.

After the web has been thoroughly impregnated, the excess impregnating material is removed from the web by a special stainless steel vacuum extraction unit, provided with a complete separator system and pump. In the separator system, the resin is separated in a cyclone-type enclosure before the air travels to the vacuum extractor compressor.

The latex is then returned to a special reservoir where a pump returns the extracted impregnating material back into the system. In this way, the extracted impregnating material can be remixed for reuse.

Drying and Curing. The web, after leaving the extraction unit with a moisture content in a range of from 150% to 200%, is delivered directly to the oven conveyor belt. The belt has a balanced weave and gives maximum support with maximum open area for air passage during the drying process.

The web is conveyed in a tensionless state through a two-zone drying and curing oven. In the first zone, air is delivered uniformly to both sides of the web through its entire travel. The majority of the drying takes place in this section of the oven. The second zone makes use also of top and bottom air nozzles, and here additional drying and curing take place.

It is recommended that natural gas, where available, be used for direct heating of the circulated air delivered to the web. However, steam at 125 lb to 150 lb is also suitable; delivery air temperature should be in a range of from 300 to 330 F.

Proper balancing of the air between the top and bottom headers is of prime importance, so that the web during its latter stages of drying and curing will not adhere or stick to the conveyor.

The conveyor belt usually furnished is of carbon steel and is driven by rubber covered head roll and tail roll and furnished complete with spring take-ups and snubber rolls for tracking. All parts of the conveyor and circulating equipment located above are easily accessible. In addition to the two circulating zones, a combination air seal and exhaust fan with motor and V-belt drive are located on both the entering and leaving ends.

Standard production units are built in lengths of 30′ and 50′, and can be provided in either two- or three-zone arrangements for use with gas, oil, or electricity, or for indirect firing with heat exchangers.

Wind-Up. After leaving the final stage of the curing oven, the finished web is delivered directly to a center shaft-type wind-up, which is geared directly to the oven conveyor.

As an alternate, constant tension wind-up units have also proved quite satisfactory for this stage of the operation.

Mechanical Drive Assembly. The entire range is tied in by a mechanical variable speed drive, with a line shaft and PIV units. Critical points of tension adjustment are provided by PIV units between the Rando-Webber and the saturator, and between the saturator and the drying oven.

Several nonwoven fabric manufacturers have tried variable-speed d-c drives, but because of slow speeds and critical tensions, the mechanical drive has given the best results.

Accessory Equipment. In addition to the main items of equipment outlined, several manufacturers have incorporated additional equipment in these ranges. For impregnation of high-loft material, past practice has found the use of automatic spray machines most satisfactory. The spray gun moves back and forth across the width of the web, thoroughly impregnating one side of the material. As many as four spray nozzles may be mounted on the carriage.

Where a very large amount of spraying is done, it is normally recommended that an independent conveyor belt be provided for the spray unit. This belt can be made of carbon steel; in some cases a Fiberglas material has been used.

The use is also recommended, when using a spray system, of a water wash-type spray booth where the air is thoroughly washed and cleaned of binder particles before being discharged to the outside atmosphere.

On units that incorporate spraying on both sides, an additional spray system can be installed after the first pass of the drying oven, and room has been left for an additional second pass back through the unit for further drying. A third pass can also be made for further curing.

Electric Heating Elements. On a range incorporating a spray unit, electric heaters have been located in the first zone of the oven between the adjustable air nozzles. The electrical units in conjunction with the convection air give a fast setting of the spray impregnated web.

These heaters have rotating devices so that when the conveyor is stopped the elements are automatically rotated 120° away from the web. This eliminates any scorching of the web during stopping or shut down operations.

Electric heaters have also been used to dry the web after impregnation in the saturator, although it is found that unbalanced heat on one side of the web will tend to cause migration in that direction.

Additional Curing. Many finished materials require additional curing above that obtainable in the range. For this type application we have been furnishing a roll-type curing unit. This unit can be incorporated directly into the range, or used as a separate system which normally could handle three or four of the standard ranges.

The unit consists of a series of driven rolls, normally furnished in two sections. In the first section, the finished web (which now has considerable strength) is conveyed up and down over rolls, and air is supplied uniformly to the web to bring it up to the desired temperature. In the second section, the so-called storage section, the goods are held uniformly at the correct temperature for a desired period of time, and then delivered to the folder or wind-up machine.

Additional cure times on various latices and binders might run in a range of from two minutes to seven minutes, at temperatures normally in a range of from 275 to 450 F.

The most popular unit, used by many of the larger manufacturers, is a direct-fired gas oven which holds approximately 70 to 75 yards of material and has a mechanical free wheeling drive on all top rolls. The rolls are normally furnished in either stainless steel or plain steel tubing. Some of the installations have been furnished with a combination of stainless steel rolls in the come-up section and plain steel rolls in the hold section. The units are available to handle all standard widths.

Web Conditioning Unit. The problem of maintaining uniform moisture at a given percentage is coming more and more into the spotlight, especially in mills that are selling goods by the pound. For this, we have recently introduced to the textile market the Avisco web conditioning unit, which introduces and regulates the required moisture content uniformly in nonwoven webs. The web conditioner is adapted to provide a range of humidification of the fabric in moisture contents which might run from 2% to 10%.

In addition to adding moisture uniformly and evenly without wetting, other benefits are gained, such as increased tear strength, added weight, reduced shrinkage, reduced static electricity, improved general appearance, assurance of better printing, and reduction of internal stress and strain. Normally, the conditioning unit is set up in a range just before calendering or just before final inspection.

Specifications. Standard widths of the range are 40", 60", and 84", with work on wider ranges now in the engineering stages.

The range is designed to operate at speeds of 5 to 40 feet per minute, depending on the weight of the web produced, the amount of latex added, and the finish.

Since some manufacturers of nonwoven fabrics have problems which preclude the use of a standard range, units can be designed to fit specific problems and capacities. Single- and multiple-pass dryers have been built in lengths from 25 feet to 60 feet, with air circulation requirements from 15 hp to as high as 250 hp.

The manufacturers of the components of the range are:

Rando-Feeder and Rando-Webber—Curlator Corp.

Latex saturator and wind-up—John Waldron Corp.

Drying and curing oven and web conditioning unit—J. O. Ross Engineering Division

Roll-type curing unit—Andrews and Goodrich

The entire range is supplied as a package by J. O. Ross Engineering Division of Midland-Ross Corp., of which John Waldron Corp. and Andrews and Goodrich are units.

How to make your safety meetings more interesting

■ SLIDES taken so recently as to show certain operations performed on the day of a safety meeting are very effective in contributing toward a livelier and more interesting program, reported A. B. Hoftiezer in a recent issue of the *Safety News Letter* published by the Textile Section of the National Safety Council.

Such slides can be made in three or four minutes using an instant-developing type of camera and a new type of film* made for these cameras, Mr. Hoftiezer said.

Film and new type slide holders are available in three sizes: 1⅝ by 1⅝ inches, for which film can easily be cut to fit; 2¼ by 2¼ inches; and 3¼ by 4 inches. The last two fit standard slide projectors.

"We use an instant-type camera, a supply of the slide-variety film, flash bulbs, and the materials for mounting slides," said Mr. Hoftiezer. "We take no pictures closer than 8 feet, as the small film will show a small area, and we want to be certain our safety points are fully emphasized.

"The process costs about fifty cents per slide, but we find the effect gained is usually worth it. Two rolls of film will make us 16 slides, which furnishes 'meat' enough for a half-hour safety meeting. If you have access to an instant-type camera, we recommend that you try this slide program at your next safety meeting."

(For other suggestions on the use of cameras to stimulate safety programs, see TI for June, 1958, p. 95.—The Editors)

*Polaroid Land Transparency Film, manufactured by Polaroid Corp. for use in the Polaroid Land cameras that develop and print pictures in 60 seconds, may be used for this purpose.—The Editors

Testing costs CAN be justified

One way is to make sure that lab reports are both accurate and reliable

by Ramon Parks
Exclusive

SINCE the laboratory cannot show any tangible production figures, the laboratory supervisor is often at a loss in justifying the expenditures for some of the laboratory's services. Actually, the value of laboratory services can be measured in many ways, one being the reliability of reports.

Can they be accepted as being mathematically correct? Were the tests performed in keeping with proper specifications? Were they made on correctly calibrated machines? Did the samples fairly represent the material being tested? Were the technicians properly trained in the techniques of making such tests?

Certainly those questions, and perhaps others, will have to be answered in the affirmative before the reports can be accepted as being accurate. Those factors might be stated *positively* as requirements for accurate and reliable reports, and it is the major responsibility of the laboratory supervisor to see that the requirements are met.

Mathematical Accuracy. Most laboratories are equipped with some type of calculating machine, or machines, and it is necessary that all technicians involved be trained in their proper use.

Since each report may require a measure of accuracy peculiar to itself, each technician should be trained in the number of decimal places such reports require. For example, tensile strength figures running 100 pounds or more might be sufficiently accurate if rounded off in whole numbers. On the other hand, figures representing coarse yarn numbers might have to be carried to two decimal places; and for yarns of less than 1s (cotton counts) three places might be required.

Another point to consider here is the matter of consistency. If the results shown in a report are carried to one decimal place, subsequent reports of the same kind should be given in figures rounded off to one decimal place.

All reports made by new operatives should be checked; and it is well to spot check all reports, even those made by the laboratory supervisor himself. Even small errors should not be passed without being called to the attention of the person responsible. While the error within itself might be insignificant, it might indicate a tendency toward carelessness which under other circumstances could prove very embarrassing.

Specifications. The use of proper material specifications in performing a test is very important, and such specifications from the various customers should be kept on file in the laboratory.

In our plant we have prepared a standard specification work sheet (Fig. 1) which we keep in a loose leaf binder. The construction of each fabric is thus kept in a uniform manner.

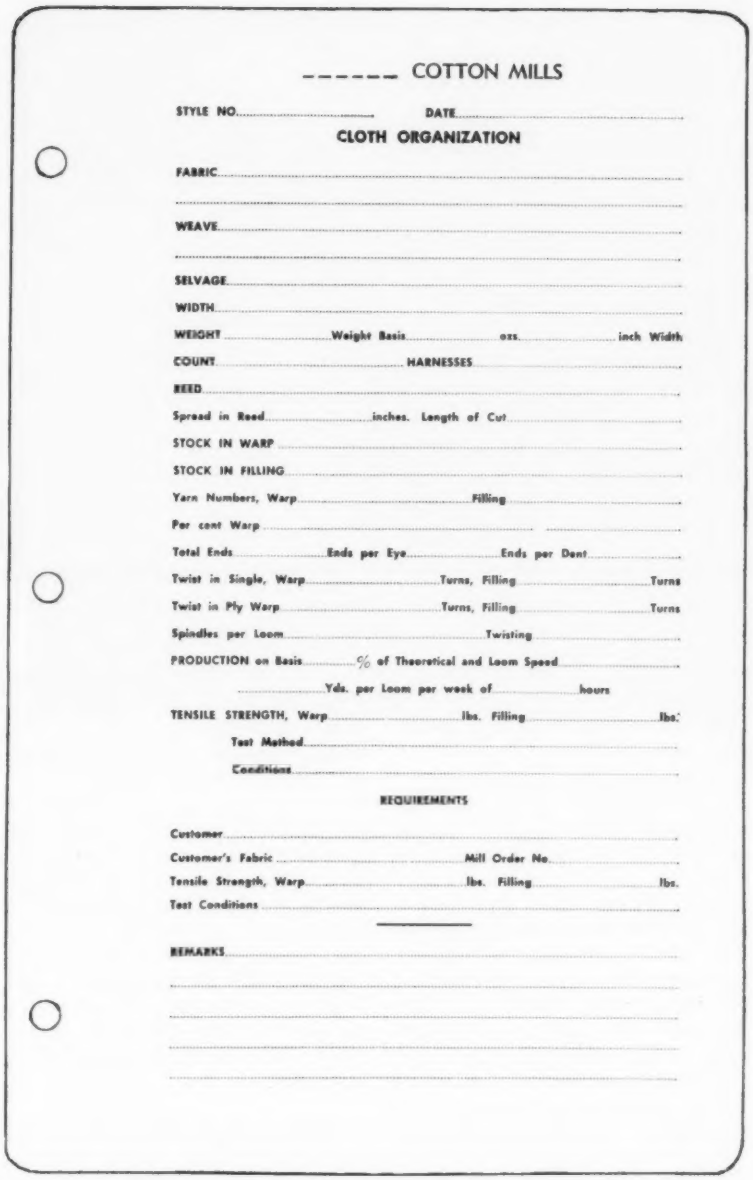
Any details not required to be checked for any particular customer are left off. Any special tests required are added by means of notes, etc.

While fabric samples are being prepared for testing, our technicians have those specifications in front of them; and they refer to the appropriate work sheet before they cut a sample.

The laboratory supervisor should assume the responsibility of preparing the work sheets for all active styles. He will have to prepare the work sheets for customers requiring other than regular A.S.T.M. test methods; and as customers change their specifications, he will have to correct the work sheet accordingly.

To prevent a machine or an instrument from being operated in an incorrect manner, written operating instructions should be provided the laboratory personnel. For example, some of the "new" electronic evenness testers have slots for various materials, change gears for different speeds, and settings for sliver, roving, yarns, etc. An instruction sheet similar to that shown in Fig. 2 should be prepared to list the correct procedures for every situation.

Although printed instructions may come with some of the machines, special procedures may be required occasionally; and these



------ COTTON MILLS

STYLE NO..... DATE.....

CLOTH ORGANIZATION

FABRIC.....

.....

WEAVE.....

.....

SELVAGE.....

WIDTH.....

WEIGHT.....Weight Basis.....ozs.....inch Width

COUNT.....HARNESSES.....

REED.....

Spread in Reed.....inches. Length of Cut.....

STOCK IN WARP.....

STOCK IN FILLING.....

Yarn Numbers, Warp.....Filling.....

Per cent Warp.....

Total Ends.....Ends per Eye.....Ends per Dent.....

Twist in Single, Warp.....Turns, Filling.....Turns

Twist in Ply Warp.....Turns, Filling.....Turns

Spindles per Loom.....Twisting.....

PRODUCTION on Basis.....% of Theoretical and Loom Speed.....

.....Yds. per Loom per week of.....hours

TENSILE STRENGTH, Warp.....lbs. Filling.....lbs.

Test Method.....

Conditions.....

REQUIREMENTS

Customer.....

Customer's Fabric.....Mill Order No.....

Tensile Strength, Warp.....lbs. Filling.....lbs.

Test Conditions.....

REMARKS.....

FIGURE 1. To help standardize testing procedures, a fabric specification sheet of this type should be prepared by the supervisor from the customer's own material requirements.

should always be specified in writing.

Machine Calibrations. No matter how accurately a test may be conducted, unless the machine or instrument is in proper calibration the test results are valueless and misleading. Some of the testing machine manufacturers provide calibration service, usually under some form of yearly contract.

Although some mills prefer that their own mechanics do this work, in all probability the manufacturer of the machine is better qualified to perform the service. Also in case of dispute, there is the added satisfaction of being able to produce a calibration certificate. If calibration service is not provided, then the laboratory personnel have to do this work, or have it done by the mill's maintenance force.

By whatever method the machines and instruments are calibrated, it is the duty of the laboratory supervisor to see that it is done at regularly scheduled intervals. If at any time tests appear to

_____ MILLS LABORATORY

Schedule for Uster Tester with Quadratic Integrator

DATE _____

MATERIAL	MATERIAL SPEED	CHART SPEED	SLOT NO.	SCALE (%)	NUMBER OF READINGS*	TIME INTERVALS OF READINGS (MINUTES)	TEST LENGTH	REMARKS
PICKER LAP		1 in/min (2.50 cm)		12.5	3	2-1/2 - 1 - 1		
CARD & DRAWING SLIVER	4 yd/min	1 in/min (2.50 cm)	2	25	3	2-1/2 - 1 - 1	18 yd	
ROVING	8 yd/min	1 in/min (2.50 cm)	4	50	3	2-1/2 - 1 - 1	36 yd	
YARN UP TO 9.5tx	50 yd/min	4 in/min (10 cm)	5	100	3	2-1/2 - 1 - 1	225 yd	
YARN 9.5tx & UP	100 yd/min	4 in/min (10 cm)	6	100	3	2-1/2 - 1 - 1	450 yd	
LAP LAYINGS	8 yd/min	1 in/min (2.50 cm)	2	25				Inert Test

* If integration varies more than five per cent, five full units on the meter scale, make five readings.

FIGURE 2. Written instruction sheets such as this aid in correct operation of equipment.

be out of line, the necessary steps should be taken to see that the machine or instrument is in proper calibration.

Representative Samples. The number of samples which should be taken to be representative of a lot of yarn, can be determined statistically, which is beyond the scope of this article. This information should be obtained by the laboratory supervisor and followed in keeping with plant policy. It is definitely the function of management to determine the amount of testing it is willing to finance.

The laboratory is responsible for seeing that the samples are in good condition and represent the material being tested. For example, a wrinkled, dirty end from an otherwise good, smooth roll of cloth does not fairly represent the roll. Such a sample should be rejected and another sample taken.

In trouble-shooting, disfigured or tangled bobbins would be tested. But for routine or control testing only well-formed bobbins would normally be checked. In taking sliver from cards for testing, care should be taken that no sampling is done immediately before or after the laps are laid, after an end has been down, or before the cylinder is fully loaded after stripping.

Training Technicians. The training of laboratory personnel is the responsibility of the laboratory supervisor — even textile school graduates will need training in the special techniques and procedures of the individual laboratory. While formal training classes are usually not considered necessary for the average textile mill laboratory, on-the-job training must be done. Even though a new operative is turned over to an experienced technician for training, the head of the laboratory must personally supervise the training. Some of the points which should have special emphasis are as follows:

Mill policies on testing

Objectives of the tests

Correct procedures for performing laboratory tests

Knowledge and use of material specifications

Correct laboratory equipment operation

Care and maintenance of laboratory equipment

Calibration of laboratory equipment within the limits set for laboratory participation

Sampling procedures

Making reports and keeping records

Filing reports and records

Knowledge and use of A.S.T.M. and federal specifications and standards.

Although individual laboratories may have special training problems, most laboratories encounter the same or similar problems.

When good laboratory organization is accomplished, the supervisor has the satisfaction of knowing that his reports and records can be accepted at face value, although a monetary value cannot readily be placed on them in every instance.

Mill builds range to finish 312"-wide fabrics; cuts costs

■ THE KNICKERBOCKER Dye Corp., of New York City, commission dyers and finishers of nylon nets, laces and tricot novelties, has in successful operation a finishing range that can handle fabrics up to 312" in width. Originally built for fabrics in the 132" width range, the unit has been modified and modernized for the wider fabric range by Knickerbocker's owners, Samuel and Herman Potrock.

The unit, approximately 85 feet in length, consists of conventional components, such as padder for resin impregnation, pin frame, and housing for combined drying-heat setting where temperatures up to 450 F can be maintained. The housing unit has been insulated with a rigid material.

It is equipped with a tensioning device which controls fabric tension across its width. Thus, there is no sagging of fabric during framing.

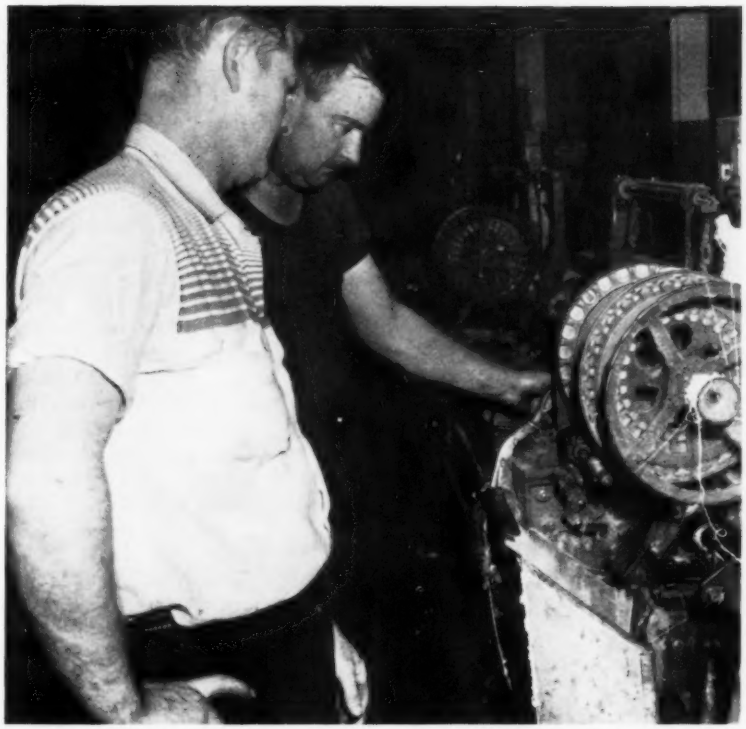
Production of the range, which operates at 90 linear yards per minute, amounts to 720 yards per minute for a 288" Kidde raschel nylon net, and is somewhat higher for tricot novelties 312" in width.

Knickerbocker has another finishing range, this for handling fabrics approximately 144" wide, which together with the wider range can effectively finish Kidde raschel nylon nets when knitted to a width of 432" with a skipped needle at the proper juncture for separation of the fabric into 144" and 288" widths.

Encourage loom fixers to ask for advice

Pride is understandable, but it may keep a loom standing.

by Carl West
Exclusive



Two heads are often better than one when a loom is not performing satisfactorily. If the trouble is elusive the fixer usually will find that someone near has met and mastered the same problem and is glad to contribute his knowledge. Yet pride often keeps fixer hunting.

YOU HAVE probably heard some present or past loom fixer boast that he has never had to seek help to fix looms. This loom fixer may not be fibbing but he has either limited experience, a short memory, or has wasted a lot of time experimenting rather than admit that he was "stuck" and ask for help.

I have asked for and gratefully received help and advice many times on a section of looms. I have also been "stuck" and found the solution quite by accident. By way of example I offer the following experiences.

Weak Pick. One incident involved a loom that was picking weakly. I set everything on the picking motion by gauge, but the loom wouldn't operate with the lug at the prescribed height on the picker stick. It would run all right with the lug an inch low, and I was about ready to give up and leave it in that position.

The secondhand came along and I asked his advice. He helped me check the picking motion step by step until we located the trouble.

On this particular loom, an early X-model, the pick ball should overhang the toe 1/8" with the toe in its top position. I had neglected to check this one vital setting and we found it to be 1/8" off. When we moved the pick cam on the shaft to give the correct clearance the pick had plenty of power with the lug in the right position on the picker stick.

Binding Thread Cutter. Once when I put a new shuttle in a loom I checked the Stafford thread cutter and found that it was too high. When it was lowered it rode the bottom of the slot in the front box plate when the lay was pulled to front center.

I didn't call for help this time but it took two hours of checking, setting, and resetting to find the trouble. The thin washer from the front box plate capscrew had slipped under the box plate. The washer held the box plate high enough to make it bind against the thread cutter.

Kinky Filling. A fabric defect known as kinky filling is hard to control in some weaves. We had one loom that had kinky filling in almost every yard of cloth woven on it for a three-month period. Almost every loom fixer and secondhand in the mill checked the loom, and it was almost completely overhauled. It was only after the trouble was corrected during the overhauling that we figured out what had caused the kinky filling defects.

Since the most strain in a loom's operation is caused when the picking motion is activated, the teeth of the crankshaft gear and camshaft gear wear first where they mesh at this point. The teeth of the crankshaft gear of this loom had become worn and some loom fixer had turned the gear a quarter turn on the shaft to move the worn teeth from the picking position.

But in its new position the worn teeth of the crankshaft gear meshed with those of the camshaft gear just as the shuttle was entering the opposite box after each pick. The worn teeth caused a slight whipping action of the lay that in turn caused the shuttle to wobble as it entered the box. The filling would overrun and kink

due to the uneven boxing action.

Symptoms May Deceive—Lazy Takeup? The complex nature of a loom's mechanism often makes it hard to diagnose troubles correctly. A fault will develop in one part of the loom and will show up somewhere else.

Just such a case was encountered on the third shift one night. A loom had been flagged by a weaver on the first shift because the cloth was running slack. The cloth would build up between the fell and the take-up roll and would become so slack that the selvages would be cut out by the reed and the shuttle.

The first shift loom fixer had not found the trouble and the second shift fixer had completely taken down and reassembled both the take-up and the let-off motions. But the cloth would still become slack after a dozen picks were woven.

After several hours of trial-and-error work the trouble was located. It was not in the take-up or let-off motions at all but was in the harness shedding motion!

The harness drive gear had slipped on the camshaft and the harnesses were crossing just as the lay reached the fell of the cloth. The filling ends were being beaten straight into the warp instead of in the normal partly-overlapping manner and consequently fewer picks could be inserted in each inch of cloth.

Since the cloth was being formed at a faster rate than the take-up motion was geared to pull it forward, an excess of cloth would soon form between the fell and the take-up roll.

Consistently Too Few Picks. Another real puzzler involved the take-up motion. A report showed that all the cloth from a certain loom contained fewer picks per inch than the construction required.

Looms often present special problems in repair, maintenance, and operation, for while most loom malfunctions can be immediately traced to the sources of trouble, sometimes the disorder is deep-seated and requires exhaustive searching. Only the casual observer can say that he has never been baffled by this unpredictable part of the loom's personality.

Every gear in the take-up motion was checked and rechecked but they all had the correct number of teeth and the cloth continued to be shy several picks per inch. Then someone noticed that the take-up roll journals were slightly longer than the journals in adjoining looms.

The take-up roll was removed and it was found to be a roll for another model of loom and was slightly larger than the roll that it had replaced. The larger circumference of the roll had pulled the cloth a full inch further on each revolution than the motion was geared for and thus fewer picks were inserted in the cloth as it was pulled forward.

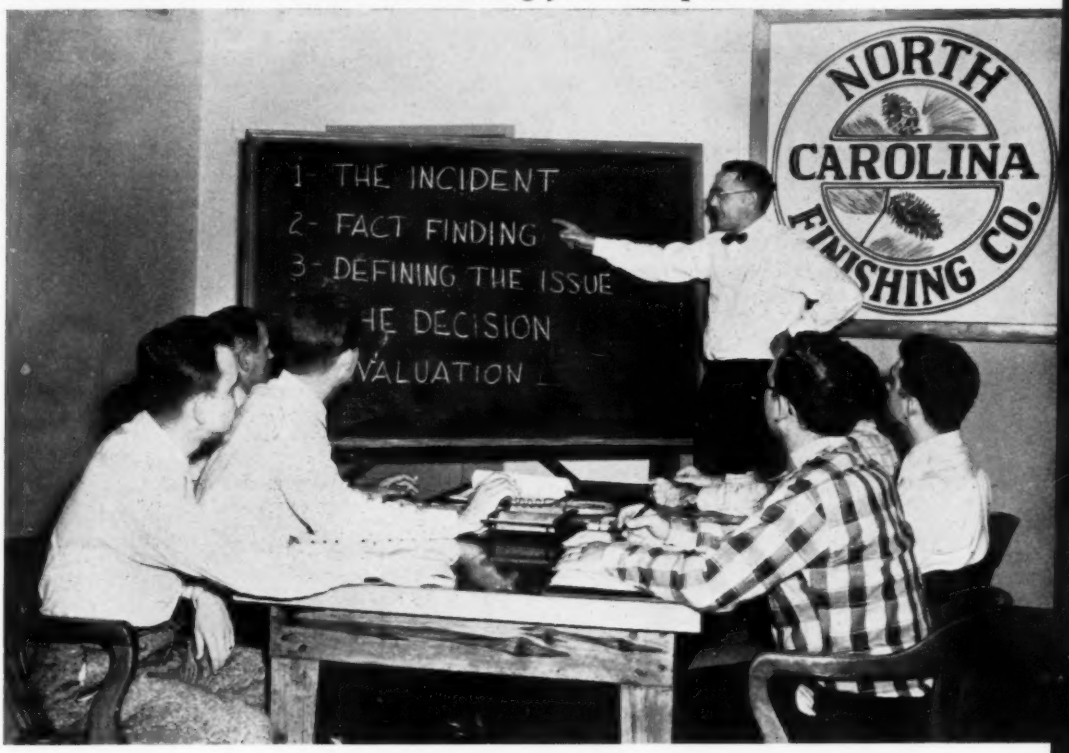
Slamming Off. I can't vouch for the authenticity of this case because it is a mill legend, but a certain loom was said to slam off unexpectedly and no one could find the reason. Then one day a barefoot boy brought his father's lunch into the mill. It happened that the boy's father was working on the ailing loom at the time. The father started the loom and the boy propped his foot on the loom girt while he waited for the lunch box to be emptied.

The loom slammed and the boy let out a loud yell and grabbed his foot. Investigation showed a crack in the loom girt that had weakened the loom frame and caused the slamming stops. When the loom had slammed this time the edges of the cracked plate had pinched the boy's bare foot and revealed the fault!

Careful diagnosis will usually disclose the trouble when a loom is not performing satisfactorily, but even the best of loom fixers waste a lot of time and energy looking in the wrong places for the trouble.

So don't hesitate to call for help when you get "stuck" on some loom problem. The chances are that someone nearby has encountered and defeated the same problem in the past and can save you a lot of time and trouble. It is not a sign of weakness but just plain common sense to ask for help in solving some of the intricate problems that arise in the course of keeping a section of looms in top-notch running condition.

Incident Process Method the best training yet, the supervisors said



Supervisor training... How to pep it up

by M. D. Rochelle
North Carolina Finishing Co.

Exclusive

HAVE YOU been looking for a development program for all levels of management? Can your supervisors stand improvement in getting the facts, making decisions, handling people, solving problems, labor relations, and self expression? Do some of your training programs fall flat regardless of the amount of time put on them?

The North Carolina Finishing Co., of Salisbury, N. C., tried the Incident Process Method in their training program, with excellent results. A cure-all? No, but no previous type of training developed such enthusiastic discussion, active class participation, and over-all benefits.

Their experience? Approximately 100 management people took this course, ranging from hourly paid foremen to plant superintendents, in groups of 10 to 12.

WHAT is the Incident Process Method? It is a group participating program of a case study nature. This program was developed by Paul and Faith Pigors of MIT, and is published by the Bureau of National Affairs, Washington, D. C.

The Incident Process gets off to a fast start. The trainee is given a short descriptive statement, one or two paragraphs, usually from an actual arbitration. It might read like this:

"On Wednesday morning George P. Swartz was handed the following warning notice by his foreman. (Violation of rule number 17. Employee was seen buying coffee at the lunch wagon after 8:00 A.M. whistle blew.) Mr. Swartz protested this warning notice as unjustified and refused to sign it."

Each participant plays the role of an arbitrator. His job is to hear and to evaluate the evidence, to render an award, and to write a brief report of his findings. The group members, after reading the statement, find out the facts by asking questions of the group

leader, who has all the available information, the actual arbitrator's award. Each participant has an opportunity to ask at least 10 or 12 questions.

Once the fact-finding phase is completed, each individual group member writes his decision as if he were the arbitrator and lists his reasons for his conclusion. He learns to think fast and logically and to base his decision on facts.

AS SOON as the group members have finished their decision writing, the group is divided into "yes" and "no" groups. Each group meets individually for about 10 minutes, appoints a discussion leader, and develops the reasoning of the group. Both groups return to the conference room, and the spokesman for each side debates the issues.

This debate occasionally gets quite heated and is always very interesting. As each member listens to the opposing viewpoint he cannot help but see that there are favorable points on both sides of the issue. After the discussion has been concluded the arbitrator's decision is read.

THE LAST PHASE, and usually the most important, is the evaluation of the case. The group now reviews the reasoning involved in the arbitrator's decision and the mistakes made by both parties. They discuss how the incident could have been avoided and what they might have done in a similar situation in their plant.

After ten 1½-hour sessions the meetings were adjourned for the summer. During the last meeting a questionnaire was given to all participants, asking whether or not they would like to continue meetings in the fall. 80% said they would like a series of three further meetings in the fall and over 90% said that the meetings were of great benefit. 85% said it was the best type of training program they had ever had.

Some of the comments:

"It gave me an opportunity to see both sides of the question."

"It taught me to think before I act."

"The best thing I got out of this training is the fact that it is a lot easier for me to talk to my people than it was before."

"Before attending these meetings I was afraid to get on my feet. Now, I don't mind a bit."

"I used to have trouble staying awake during the best of the training sessions. This was so interesting I felt alert through the whole thing."

A supervisor has nothing to do

■ AS EVERYBODY knows, a supervisor has practically nothing to do. That is, except:

To decide what is to be done; to tell somebody to do it; to listen to reasons why it should not be done, why it should be done by somebody else, or why it should be done in a different way, and to prepare arguments in rebuttal that shall be convincing and conclusive . . .

To follow up to see if the thing has been done; to discover that it has not been done; to listen to excuses from the person who should have done it and did not do it . . .

To follow up a second time to see if the thing has been done; to discover that it has been done but done incorrectly; to take the blame from his supervisor for the mistake; to point out how it should have been done; to conclude that as long as it has been done, it may as well be left as it is; to wonder if it is not time to get rid of a person who cannot do a thing correctly; to reflect that person in fault has a wife and seven children, and that certainly no other supervisor in the world would put up with him for a moment; and that, in all probability, any successor would be just as bad or worse . . .

To consider how much simpler and better the thing would have been done had he done it himself in the first place; to reflect sadly that if he had done it himself he would have been able to do it right in twenty minutes, but that as things turned out he spent two days trying to find out why it was that it had taken somebody else three weeks to do it wrong, but to realize that such an idea would strike at the very foundation of the belief of those who may think that a supervisor has nothing to do.—*The Commentator*, published by Union Bleachery, Greenville, S. C.

To promote American-made wool merchandise

■ WOOLENS and worsteds of America has been organized to inform the public of the merits of American-made wool products and to stimulate an increase in sales. This nationwide project represents all segments of the wool textile industry, from grower to manufacturer, and brings together various associations to finance jointly an extensive program on behalf of American-made wool merchandise.

Among the trade associations which will be represented on the board of directors of the corporation are the National Association of Wool Manufacturers, the Northern Textile Association, the Jersey Institute, the Felt Association, the National Knitted Outerwear Association, and the Midwestern Woolen Manufacturers Association. The cooperation of labor groups in the woolen and allied fields will be invited.

Woolens and Worsteds of America has retained the firm of Robert S. Taplinger Associates for public relations and promotion, and the organization will supplement the wool promotional programs being conducted by other agencies. An information center and clearing house has been established in New York City at 608 Fifth Ave., with representation in key cities.

A special insignia has been created to identify American-made wool products.

Planned projects include the American Wool Bicentennial in 1960 marking the 200th anniversary of the transition of woolen manufacture from individual homes to mills; the establishment of an American Wool Month in September; American Wool Designer Awards for the trade, the textile schools, and fashion academies; idea awards for inter-industry competition; and programs to cope with the problems of competition from imports and to eliminate misrepresentation of non-wool textures as purporting to possess the attributes of wool.

This typical West Texas cotton gin, with about 2000 bales in the gin yard waiting to be ginned, illustrates a ginner's big problem: Profits must come from around-the-clock operation during the short ginning season.

The ginner has his problems, too!

He's caught in the middle between the farmers and the spinners, but the ginner does his best despite severe handicaps to solve the tough problem of satisfying them both

by Jack D. Towery

Textile Engineer
Moss-Gordin Lint Cleaner Co.

Exclusive

MOST PEOPLE think of a gin as a large tin building on a farm or in a neighborhood surrounded by small homes. The amount of dust and flying lint around the building may cause a sympathetic second glance by a cotton-mill man, but the average mill man knows little more than that about ginning or ginning problems. Yet mill management strongly believes that ginners should be familiar with mill problems and will go to great trouble to open their plants to groups of ginners. They want, and rightfully so, ginners and producers to know the complicated process of converting the raw material to the finished product.

It's awe-inspiring for a ginner when he visits a large mill for the first time, but a visit through a gin does not have the same effect on the mill man. He sees the gin as a large mill-type opening room running almost automatically with few people involved. There is much more to ginning than that, however. Ginning today is big business, representing investments totaling hundreds of millions of dollars and employing many people. Modernization of gins accounts for an expanded investment which, on a percentage basis, would frighten a mill manager. The cause for this expanded investment in the gin industry lies in the increase in the trash and moisture content of the cotton.

The ginner sells a service. Competition for the farmer's business is stiff. The gin that will make the best grade and staple usually has the most business. If the farmers bypass a certain gin, the ginner's revenue stops. The ginner must have enough seed cotton to keep his operation going around the clock during the very short ginning season. There is a break-even point beyond which the ginner

must go or he loses money.

Some of the Ginner's Problems. Ginning is subject to the whims of nature, of the farmer, and of the government. Late plantings, early frost, rain, drought, and insects can curtail the crop to the point of making a season's operation a disastrous one. Reduced acreage due to governmental controls or soil banks hurts the ginner more than any other segment of the agricultural community. The farmer thinks little of hauling his cotton twenty miles beyond the nearest gin for any number of reasons. Better ginning is not always the main reason for the bypassing, either. All of this forces the ginner to do his utmost to get his share of the crop.

The gin must supply all types of services, from loaning trailers and tarpaulins to financing the crop. Yet, with these problems and with the increased investments, in many areas the gins are still charging the same price for ginning that they did before modernizing.

The fact that ginning charges are based on the weight of seed cotton brought to the gin would make one think that the more trash, the more revenue to the gin. This is not so, because the farmers expect a certain percentage lint turn-out. If the weight loss, due to trash removal, moisture removal, or lint loss is too great, the farmer can be hard to pacify.

The gin must be efficient and do everything just so. The cotton sample must be smooth and bright, which is almost impossible if the cotton contains too much moisture. It must not be overdried or the staple length will be reduced. It must be trash-free or the grade will be impaired; and yet if the cleaning is carried too far, the cotton is penalized for being "over machined."

A few years ago the cotton picker gathered an average of one per cent or less of trash, and the gin stand alone could produce a middling bale. Today the cotton picker gathers an average of four per cent trash with the cotton. The farm labor force gets smaller each year and probably will continue to do so. With fewer people to pick the crop, mechanical harvesters must fill the gap.

Mechanical harvesters gather more trash, which means the ginner must install more machinery in order to perform a task which was formerly done in the field. Mechanical harvesting also means an accelerated gathering, forcing the ginner to install additional machinery for larger capacities.

Dryers and Lint Cleaners. A recent report issued by the Agricultural Marketing Service shows that about 10,000 drying and cleaning systems were installed in cotton gins during the period of 1945-1957. Most of these were multiple unit systems. During the 1956-57 ginning season, 85% of the gins had seed cotton dryers, 79% had overhead (seed cotton) cleaners, 53% had bur machines, and 51% had lint cleaners.

During the past season these percentages probably increased greatly. This investment in new machinery means that maximum efficiency must be maintained in the total operation in order to make profits and amortize the machinery investment.

This same U.S.D.A. report states that during the 1956-57 season 53% of the cotton was still hand-picked, 22% machine picked, 18% snapped, and 7% stripped. This crop was ginned by 6,836 gin lines or batteries, with about 75% of the gins handling 2,500 or less bales during the season. The cotton was dried by 85% of the gins, with 61% drying the cotton in a single stage dryer.

The Ginner's Personnel Problem. It is generally accepted that the quality of the operating personnel at the gin has much to do with the resulting grades. The most modern ginning machinery in the hands of inexperienced and poorly trained crews will not automatically turn out a good bale of cotton. Gin owners and operators are well aware of the need for skilled personnel, but with the ginning season becoming increasingly short and an around-the-clock operation, skilled personnel are not easy to find or to hold.

Gin machinery manufacturers in cooperation with institutions and governmental agencies are offering short courses during the off-season. Recently two of our colleges, in cooperation with the National Cotton Council and gin machinery companies, started much-needed training for young men wishing to enter the industry.

This training should encompass the fiber and spinning tests that are becoming a part of the language of the cotton trade. Indeed, a few gins and groups of gins are installing fiber testing instruments. Many misconceptions that have existed between the gins and mills are rapidly being dispelled. The ginner is learning what "neps" are and what they mean, and what "spinnability" means.

Gin machinery companies are contributing much to this program. One machinery company has established both a fiber and a spinning laboratory as a part of its research and development activities. With the large number of ginners visiting the plant it is, in effect, an educational program.

As a part of the quality control program for this machinery company, samples are being obtained from the gins during the season, and copies of the test results on these samples are sent to the gin with adequate explanation of the results. This contributes much to the ginners knowledge.

It is not inconceivable that in the future, judgment of the efficiency of a gin will be based more on quality than on grade or staple.

The Ginner Must Please Both Farmer and Spinner. The average ginner is doing his best to stay abreast of what the mill wants and what the cotton buyer is looking for. The ginner considers what he must control and contend with, and as a good businessman, he recognizes what he must do to survive these uncertain times.

He has been made to realize, through his gin's efficiency rating and the work of the ginning laboratories, which line-up of machinery is going to give him the best results for his area's cotton. He knows the limitations of his seed-cotton cleaning machinery, and for this reason has turned to lint cleaning as the final operation before baling.

So look on the ginner with respect and understanding—he has his problems too!

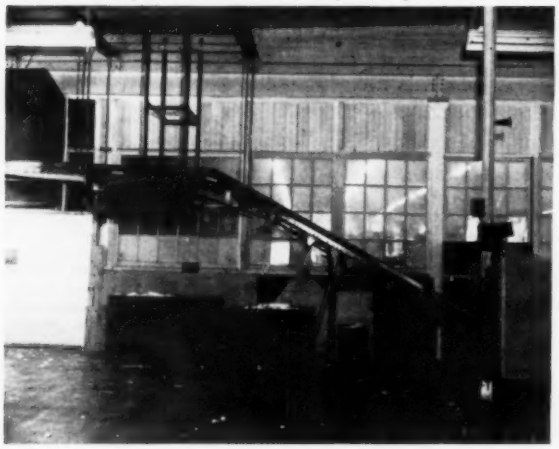
Conveyor solved space problem

Needing more yarn storage space, this mill installed a conveyor to utilize basement

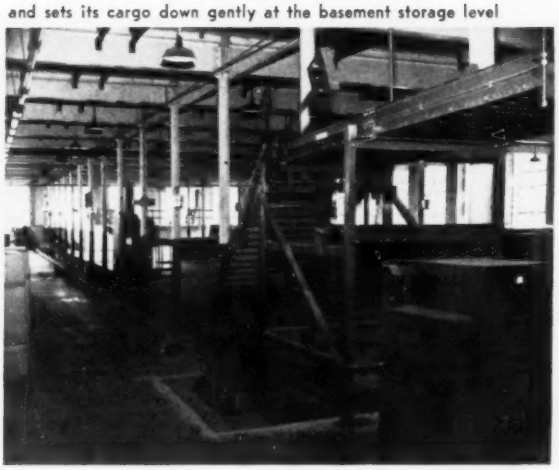
Beginning in the packing room, fed from several stations . . . . . .

the conveyor traverses the spinning room using overhead space . . .

continues through a warehouse area, drops through a floor . . . . .



and sets its cargo down gently at the basement storage level

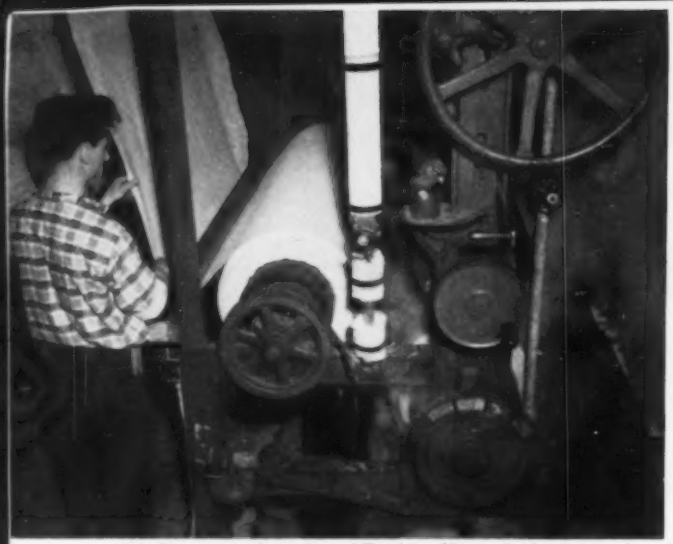


Staff prepared Exclusive

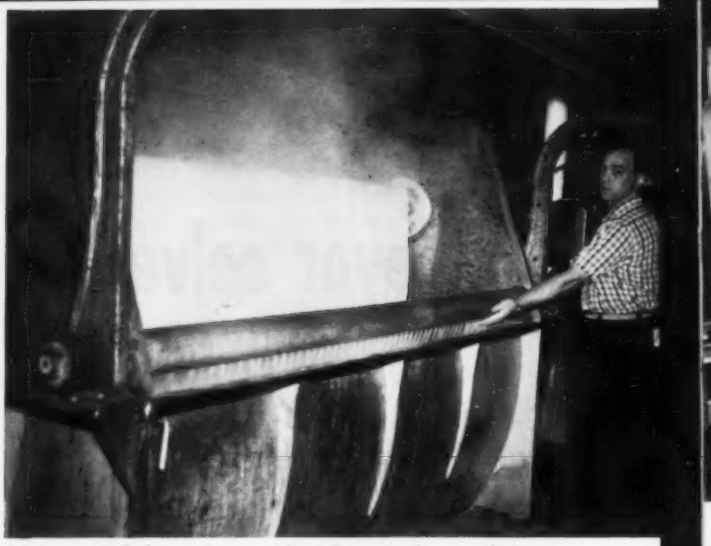
A MOTORIZED conveyor in use at Highland Cotton Mills, High Point, N. C., moves about 175 cases of yarn, each weighing 230 to 250 pounds, daily from the packing room to the shipping department, a conveyor distance of about 325 ft.

According to G. R. Ward, general superintendent, the conveyor saved (based on the estimated cost of a new warehouse) about 90 per cent of the cost of such a building. Partly motorized and partly utilizing gravity roll, the conveyor was installed to permit a basement area some distance from the packing area to be used as shipping space. This saved building 17,500 square feet of floor space for storing the packaged yarn.

The conveyor line begins in the packing room where it is fed from several packing stations, continues through the spinning room, warehouse area, and to the basement and shipping department. Four to five men operate the entire system which was installed last January by Alvey Conveyor Co.



Woolens, worsteds, and wool/Terylene (Dacron) blends, in a broad range of qualities, comprise the largest percentage of the output of Dominion's Wool Division. All fabrics are first carefully examined and weighed before going into process. Of the three fabric groups, some worsted qualities and all wool/Terylene fabrics are given a crabbing on the Yorkshire crab (left photo, above). Wool/Terylene fabrics particularly require a setting, since creasing constitutes a major problem in subsequent processing. A water-treatment plant supplies chemical-free water for the scouring and rinsing operations which follow crabbing. A high-quality, low-titer soap, formulated with alkali, is used for all three fabric groups. Routine calls for thorough rinsing to assure clean fabric for dyeing.



Dyeing and finishing wool-synthetic blends

Dominion Dyeing & Finishing Co.

specializes in diversification

Staff Prepared—Exclusive

A COMPLETE listing of the equipment and auxiliary facilities of the Dominion Dyeing & Printing Co., Ltd., would at once indicate a diversity in finishing of such degree as to be considered unattainable by one plant. Yet it would be difficult to mention a fabric or fabric blend, whether woven, tricot, or tubular knitted, that could not readily fall into an established finishing routine at Dominion.

Although diversification is not uncommon among Canadian plants, since demand for textiles is governed by a population that is only 1/10th that of the United States, Dominion's operations

After dyeing, some woolens, such as flannels, are rough-dried, carbonized, neutralized, and dried before passing through a final finishing routine. Worsteds and wool/Terylene fabrics are dried and then follow separate finishing routes. Extraction always precedes drying: centrifugal extracting for delicate fabrics and squeezing for suiting fabrics. To allow for contraction in finishing, all fabrics are dried wider than the desired finished width (below, left). Dominion's shearing equipment (below, right) consists of a triple unit: The first unit shears the back of the fabric; the second and third units shear the face. Wool/Terylene fabrics receive a double shearing as an antipilling measure. Worsted fabrics receive only a single passage, where the shearing operation is called for at all.

Fulling (above, left) follows for wool flannels and some worsted qualities. Although a new fabric is observed more closely during fulling, periodic fabric measurements and supervisory attention are required for all fabrics. Dominion's dyeing equipment of various sizes and constructions can accommodate a wide range of fabrics. Following fulling and/or scouring, woolens and worsteds are dyed in the conventional manner. The dyeing procedure for wool/Terylene, after scouring and rough drying, is a two-bath process. The Terylene is dyed first with disperse dyes, in the presence of a carrier. The wool is then dyed in the second bath. Some of the disperse dyes have a tendency to stain the wool; this presents still another problem to the dyer—one that calls for considerable color-matching skill.

might well be compared to those of a multiplant organization, except that they are carried out under one roof. In fact, its plant, located in Drummondville, Quebec, represents the consolidation of several plants that belonged to the parent company, the Bradford Dyers' Association. This consolidation, completed in 1955, centralized all of Bradford's Canadian operations.

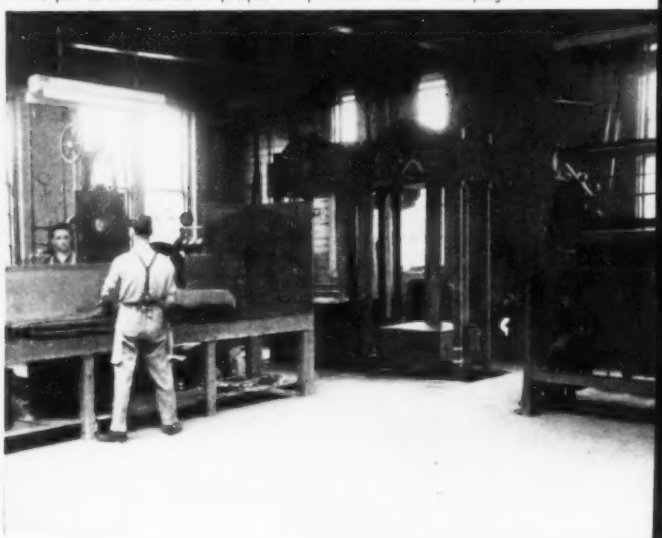
Being of one-story construction, and approximately 180,000 square feet in size, with adjoining acreage for expansion, the plant has adequately met operational requirements. Although the St. Francis River is suitable for most processing requirements, there is a treatment plant that provides chemical-free water for the more critical processes. Present steam generating facilities, which are capable of meeting increased demands, consist of an electric boiler, which together with four other boilers that burn pulverized coal, have a combined capacity of 142,000 lb/hr.

Three Operating Divisions. Organizationally, Dominion operates as three separate divisions, each under a divisional head, and the whole under the close control of the company's president, who coordinates plant-wide activities.

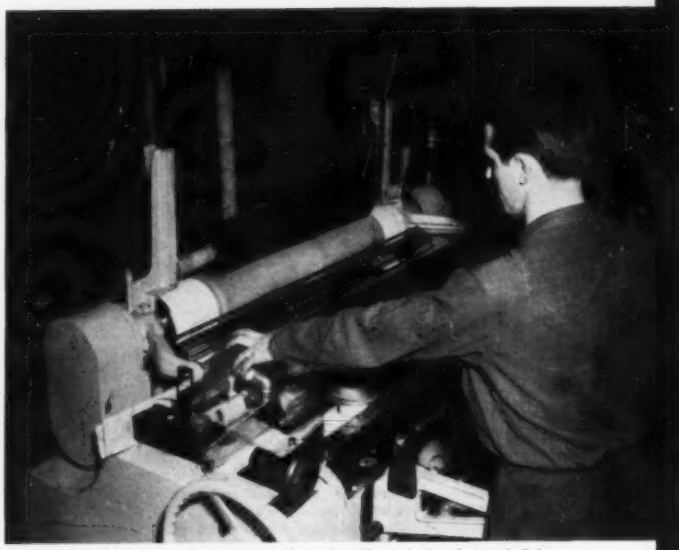
In the Dyeing Division, fabrics other than woolens and worsteds are prepared and dyed. Some of the equipment in this division includes a singeing and desizing range, high pressure kiers, continuous dyeing ranges, high temperature jigs, and dyeing becks that now find largest usage for tricot fabrics.

The Printing Division is equally diversified. In addition to printing machines of various sizes and constructions, which can accommodate such fabrics as corduroys, tricot and tubular knits, and cottons and rayons for dressgoods and draperies, there are screen printing tables and complete facilities

Beyond the shearing machine are the rotary press and steaming and conditioning units through which most of the woolen and worsted fabrics pass before decatizing (below, left). Dominion's hydraulic pressing room is shown in the photograph at right below. Here a finish characterized by soft hand and high polish is given to higher quality worsteds. Although the operation requires much hand labor, and the cycle takes two days for completion, the finish produced under the heavy pressures can not be duplicated by other means. Here, operatives carefully fold the doubled cloth into squares, while inserting papers and warmed steel plates between the folds before stacking and placing them into the hydraulic pressing unit. The unit where plates are heated to proper temperature is shown on page 176.



Unit where steel plates are heated to proper temperature. After the fabric is removed from the hydraulic press, it is refolded, stacked, and pressed again to achieve uniformity on all areas of the fabric.



The wool Division is also equipped to handle tubular knitted fabrics. Here a knitted wool/Orlon fabric is steamed, stretched to width, and baled before shipment. Blends are increasing in volume.

for pantograph and photo-engraving.

The third division, known as the Wool Division, has an output that reaches 800 pieces per week. Although woolens and worsteds still comprise the largest percentage of this output, fabric blends, notably wool/Terylene* for suitings, and wool/Orlon knitwear, have been steadily increasing in volume.

Wool/Terylene Dyeing Most Critical Operation. Processing operations on wool/Terylene suiting fabrics closely follow normal worsted procedure, except that the operations must be carried out with greater exactness since some factors, such as liquor ratios and temperature, are very critical.

The operations on wool/Terylene are as follows:

Examine and weigh
Crab
Scour and rinse
Rough dry and examine
Dye (two-bath process)
    Terylene first
    Wool last
Dry
Shear (double passage)
Decatize
Final inspection

In preparing wool/Terylene fabrics—and for that matter all woolens and worsteds—for dyeing, Dominion uses soap-alkali formulations. While some precautions are essential, such as a more rigid temperature control and a more thorough rinsing, Dominion has been obtaining excellent results with the formulations for many years.

For one thing, a high quality, low-titer soap is used, and since the water is of negligible hardness, it presents no problems in soap solubility and rinsing. Moreover, the formulations are lower in cost and higher in efficiency than any others evaluated thus far.

One of the problems in processing wool/Terylene is prevention of creasing, which can cause streaks in dyeing. And one of the measures taken at the outset is to thoroughly set the fabric by crabbing. In subsequent operations, from scouring through dyeing, greatest attention is given to prevent fabric folds from becoming permanently set.

In dyeing particularly, which is the longest operation, attention is given to this important problem. In fact, dyeing machines equipped with special reels which change the position of folds are most frequently used. The practice of keeping goods moving without delay from one wet processing operation to another is also rigidly adhered to.

The dyeing operation is most critical. It requires careful selection of dyes and a knowledge of their exhaustion rates, along with skillful color matching. The two-bath process, which is used at Dominion, calls for the dyeing of Terylene first with disperse dyes, in the presence of a carrier. Some of the disperse dyes have a tendency to stain the wool fiber; this presents still another problem to the dyer, one that calls for color matching skill.

Needless to say, much work on a practical scale has been done by Dominion to develop practicable dyeing formulations. The company benefits as well from an exchange of knowledge with other companies in the Bradford group.

In finishing wool/Terylene, the fabric receives a double shearing, which serves as an effective measure against pilling. Following this operation, the fabric is decatized and then inspected. Dominion has built an inspection room, adjoining its wool finishing department, that offers ideal lighting conditions. This room has a large window facing north, which allows more than ample light.

Grouping Operations Minimize Handling. The operations which have been described are located in three separate, though adjoining, areas to facilitate flow of goods. The preparatory operations, from

(Continued on page 206)

*Polyester fiber, similar to Dacron.

A mill spinning slub yarns found a way to cut electrical relay maintenance costs

Annual saving: $5,500

by Charles McAlister
Exclusive

WE HAVE a number of electrical relays which furnish power to magnetic clutches on spinning frames making slub yarn. The clutch activates a steel roller which changes the preselected ratio in making the slubs. The action must be positive and without failure, because the design or pattern in the yarn is ruined if the relay doesn't operate on schedule and if the contacts do not release when the power is interrupted.

The indexing wheel which sends signals to the relay can be set to operate the relay about 40 times a minute; however, we set it to operate between 12 and 30 times a minute.

The Problem. Maintenance of the relays was found to be costly, because the standard contact, made of silver, became burned and distorted by the d-c current used. Standard procedures were observed in retarding the arc by using a condenser, but the life of standard contacts was only two weeks. And the contacts had to be cleaned after the first week of operation and replaced after the second week.

Cost of the standard contacts was $1.50 per unit, $1.17 for installation, making a total of $2.67 per week for each unit. A period of 26 weeks showed a cost of $69.42 per unit for 40 units, making a total cost of $2776.80 for operating six months.

The Solution. We installed tungsten carbide contacts with excellent results. After considerable use, there is no distortion or wear visible.

Cost of the carbide contacts per unit is $0.60, installation cost is $1.17, and total cost per unit is $1.77. Cost for 40 units is $70.80, thereby effecting a saving of $2,706.00 in a period of six months.

Even assuming that the new contacts will last no more than a year (which seems conservative), our savings should amount to over $5,000 per year.

The relay manufacturer has adopted the carbide contact for new units. This is favorable for concerns that are just now installing this system; but for us it does not help much, except for replacement of relays that wear cut.

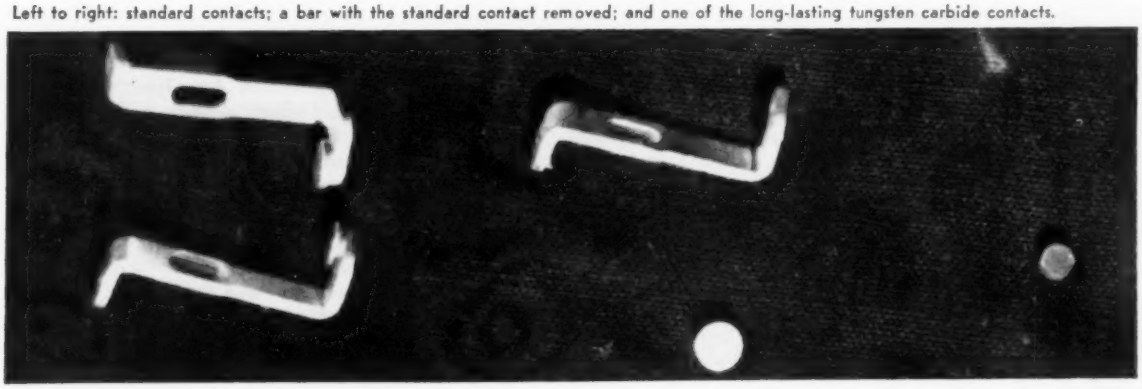
Mill - Made Contact Under Test. At times it has been difficult for us to obtain the carbide contacts. So, we are trying a different type of contact which may operate as effectively as the carbide type. Using low-carbon steel rod (S.A.E. 1025), we turn the contact in a lathe, afterwards using the process of carbonizing and cyanide hardening. Our practice is to heat the contact to 1450-1650 F, then dip into a bath of sodium cyanide.

As soon as the bath extends over the contact, it is removed and washed in clear, cold water. Any low-carbon steel is suitable for this process, and most shops have equipment for one of the many types of case hardening procedures.

This mill-made contact has been in operation for about eight weeks with perfect performance. This exceeds standard contact life, and we believe it will come near the tungsten carbide rating.

Our use and conditions of operation do not exceed the heat, voltage, shock, and amperes that tungsten carbide can stand without damage. In further reducing costs, a contact made of steel that is case hardened should serve its purpose as it has done for us these past several months.

Left to right: standard contacts; a bar with the standard contact removed; and one of the long-lasting tungsten carbide contacts.



PLANNING WINDER PRODUCTION

Method used in a braiding plant is applicable to any mill using a variety of yarns

by Mara Havinoviski
Exclusive

WE HAVE been successful in establishing, over a relatively short period, an effectively coordinated production planning method for winding and braiding. We feel that it may prove helpful to the braiding and other segments of the textile industry that encounter similar problems.

The very competitive nature of our business had long been a stumbling block to efficient production. One main result is the importance of running ahead of orders, i.e., producing for stock. Another important result is the exceedingly diversified number of styles, running almost the complete gamut of yarn types, deniers and counts, finishes and colors, taken from a liquid inventory composed mainly of job loads. A third result is the economic necessity of keeping all machines going at all times, with no extra waiting for replacement of empty bobbins or loading.

This lack of materials standardization certainly made the planning function most difficult, and the control function almost impractical. The winding department, working at full capacity, could not keep up with the diversified yarn requirements of the braiding department, although it did produce the total general poundage. This situation resulted in stopped machines waiting for specific yarns while other yarns would be misproduced at winders and would be stored for several days before they were again needed, and in excessive overtime at winders when trying to keep up with the demand. Any attempt to control winding production from the floor would result in an increased number of changeovers and in a decreased winder production.

THE SOLUTION to this problem lay in an adequate distribution of yarns to be wound daily, coupled with a tighter inventory control and with an earlier decision as to which yarn would replace which when the particular job lot runs out.

We are concerned here entirely in describing the main part of the solution: an adequate distribution of yarns to be wound daily.

The end product of our method consists of a board listing vertically all the basic yarns required for current production on all machines, and listing horizontally their individual daily requirements—in terms of full cans or trays*.

The method used in designing the board shown in *Figure 1* consists in first setting up and maintaining a master schedule. The master schedule is composed of detailed lists of all the machines, their loading capacities or sizes, yarns currently used, machine speeds, frequency of loading, the day of the last change or loading, and the average frequency of loading. All these data serve to determine the total number of bobbins of various yarns required to run all the machines at all times.

An actual example of a portion of the master schedule will illustrate the obtained results—see *Figure 2*.

An example will clarify the layout. Let us consider Table No. 45 in Figure 2. It has 16 machines of 25 carriers apiece. This means that a total of 400 bobbins is needed to load all the 16 machines of this table. Now, we are running 600-denier, one end, bright viscose on all these machines. Calculations and/or observations will tell us that we have to replace the empty bobbins or load every three days, and that the last loading was on Thursday morning. Thus, the average weekly loading frequency is $5 \div 3$ or 1.67, and the average total bobbins per week should come to 1.67×400 or 668 bobbins.

Furthermore, in view of the fact that the last loading of this table occurred on Thursday, the next loading should take place three days hence, or on Tuesday. The daily distribution will be as follows: Of the total 668 bobbins, 400 will be needed for Tuesday, and the balance of 268 on any other day of the same week, say Thursday.

All these daily bobbin totals from all machines are grouped by yarn type and then converted in terms of number of cans or trays as shown listed on the control board.

It is well to mention at this point that it should not be assumed that the various yarn quantities will be needed exactly on the day stated—except for the first loading with the new system—but that the day provides only a basis for distribution of braiding needs over a period of one week. Also, it may not be immediately apparent from the master schedule example that the total bobbin requirements of each yarn average out to keep up with or be ahead of braiders' requirements. An absolute or more rigid plan would have required much more space and planning effort. Flexibility is most important to us in keeping the method simple and practical.

THIS IS how our method actually works: Suppose that on Table No. 47 we had started with ten braiders using 20/2 blue cotton yarn, and that on Monday four

*Spun yarns are in cans, filament yarns are on trays; there are approximately 100 bobbins per can and 50 bobbins per tray.

YARN	MON	TUE	WED	THU	FRI
600/1 bright viscose	15	19	10	20	10
300/2 dull acetate	6	2	12	–	10
450/1 black viscose	5	–	10	2	2
150/3 black viscose	2	–	–	3	1
300/2 semi-dull nylon	3	6	10	5	2
20/2 blue cotton	6	6	6	6	6
30/2 spun white orlon	3	4	2	2	1
etc.					

FIG. 1

happens to be ahead on some of his various yarn quotas. He will continue with his current yarn set-up wherever he can and thus save on changeover time. This is where the flexibility of the system is also important.

Alterations on the control board were made by erasing the old figures and writing in the new ones. It was suggested that a larger board with transparent pockets containing tickets with the information as to number of trays or cans would greatly facilitate the foreman's clerical work.

Also, it should be noted that the

MASTER SCHEDULE

1	2	3	4	5	6	7	8	9	10	11				
TABLE Nº	Nº MACH	Nº CARR	Nº BOBBIN	FEED SPEED	YARN	LOAD FREQ	DAY	AVG. FREQ	TOTAL BOBBIN	DISTRIBUTION				
										MON	TUE	WED	THU	FRI
45	16	25	400	175	600/1 bright viscose	3	Thur	1.67	668		400		268	
		25		"										
46	~~20~~ 10	16	160	220	450/1 black viscose	3	Fri	1.67	267			160		107
	10	16	160	"	300/2 semi-dull nylon	2	Tues.	2.5	400	240			160	
47	~~10~~ 6	41	~~410~~ 246	160	20/2 blue cotton	1	—	5	~~2050~~ 1230	~~410~~ 246	~~410~~ 246	~~410~~ 246	~~410~~ 246	~~410~~ 246
	4	41	164	"	30/2 spun white orlon	1½	Mon.	3.34	548	164	164		220	

FIG. 2

of these braiders were changed to another style requiring two ends of 30s spun white Orlon yarn. We must cross off the old data and substitute new data for the remaining six machines on 20/2 ply blue cotton. In addition, we will use empty horizontal spaces provided for such changes on our master schedule and jot down all the necessary data for the four braiders now running with two ends of 30s spun white Orlon.

This changeover will be reflected on the control board in the following manner: The total number of bobbins of 20/2 blue cotton is reduced from 2050 to 1230 by 820 bobbins or about eight cans. To eliminate fractions, we will deduct two cans each on Monday, Tuesday, and Wednesday, and one can each from the remaining two days of the week. And we will add 548 bobbins or six cans of 30/2 spun white Orlon as follows: Monday will require 164 bobbins or two cans, and so will Tuesday. The remaining two cans would be needed by Thursday.

The winding department foreman will get the change order and immediately show the stated distribution on his board. The altered portion of the control board will now look as shown in *Figure 3*.

The author of this article must point out here that the foreman does not have to actually affect a changeover of his winders if he master schedule, being actually a work sheet, will become untidy after a few changeovers. To this effect, it was suggested that hectographed forms would be helpful. Obviously the headings of columns 1 to 11 remain constant. The information in column 1 is also standard. The 2nd column with its list as to total machines per table should also be stated, although changes will occur here. Column 3 stays the same and can also be hectographed. So are columns 4

(Continued on page 185)

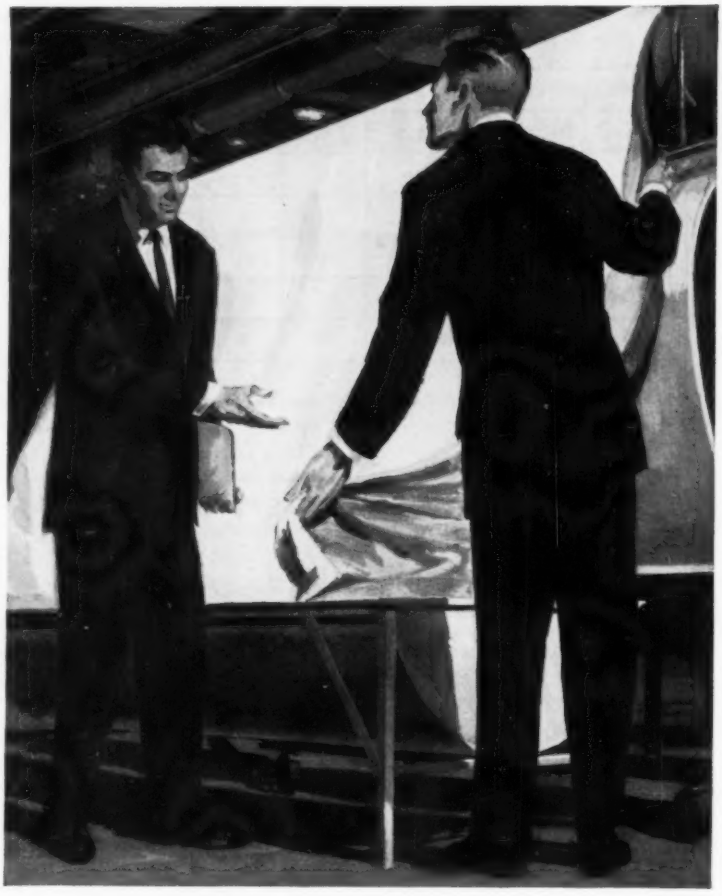
YARN	MON	TUE	WED	THU	FRI
20/2 blue cotton	4	4	4	5	5
30/2 spun white orlon	5	6	2	4	1

FIG. 3

TO SOLVE YOUR FINISHING PROBLEMS YOU NEED BOTH...

TOP-QUALITY PRODUCTS

TOP-QUALITY SERVICE



The *successful* solution of a finishing problem always calls for two things: 1) Expert technical analysis; and 2) Products which meet the specific need with scientific precision. You get both from the Textile Finishes Department of Procter & Gamble. P&G offers you unsurpassed experience in solving finishing problems that require fatty based finishes and softeners, and in developing and manufacturing the needed soaps and detergents.

If you are interested in eliminating finishing difficulties and improving your processing and results, be sure to have the Procter & Gamble Textile Finishes experts evaluate your situation—without cost or obligation on your part. The data you receive will be based on *your* fabrics, *your* finishing procedures . . . and whatever other special materials or conditions are involved in *your* problems. And this expert analysis will be backed up by a specialized product or products selected from the many developed in the famous P&G laboratories.

For all the facts call the P&G Textile Representative nearest you. Or, if you prefer, write to Textile Finishes Section, Procter & Gamble, Industrial Specialty Sales Department, Cincinnati 1, Ohio.

New! PROXOFT-N

A remarkable new type of nonionic softener and lubricant. PROXOFT-N was developed by Procter & Gamble especially to give maximum stability with acids, salts and other trouble-making chemicals. It has the compatibility of the best nonionic agents and, at the same time, gives the desired lubricity and smooth, full-bodied softness which is characteristic of anionics. PROXOFT-N can be used advantageously on all types of natural and synthetic fibers.

PROCTER & GAMBLE

The **PROCTER & GAMBLE** Company • **TEXTILE FINISHES** Dept., Cincinnati 1, Ohio

BRANCH OFFICES: Atlanta • Baltimore • Boston • Brooklyn • Charlotte • Chicago • Cincinnati • Cleveland • Dallas • Detroit • Hartford • Kansas City • Los Angeles Louisville • Memphis • Milwaukee • Minneapolis • New Orleans • New York City • Omaha • Philadelphia • St. Louis • San Francisco • Summit (N. J.) • Syracuse

Here's a new carpet yarn system

Part of Mackie's pilot plant for spinning long-staple yarns for tufted and woven carpets. Three drawing frames are in the foreground, and two gill spinning frames in the background.

For spinning long-staple tufting or weaving yarns, it's a combined jute and worsted system

by P. Abbenheim
Exclusive

SINCE tufted carpets were first introduced into Great Britain a few years ago, manufacturers have been looking for ways of producing low-cost yarns that will have good cover and a minimum of shedding when used in cut-pile constructions.

The obvious system that could produce a cheaper yarn than the cotton-type generally used was the jute system. This uses a longer staple and is very much cheaper than the cotton system. But today only one carpet manufacturer is making a British tufted carpet with jute-spun rayon staple yarns. These yarns are considered to give a good carpet and the longer staple effectively reduces shedding of pile fiber.

The other tufters complain that jute-spun yarns tend to be too lean and do not give sufficient cover, but the possibilities of using higher denier staples and longer staple lengths is an ideal that many of them still hold.

But now the Belfast, Northern Ireland, machine building firm of James Mackie & Sons Ltd. has taken the wraps off a new spinning system for producing man-made fiber staple carpet yarns for both tufted and traditional carpets. They have called it simply the Mackie Carpet Yarn System.

Mackie has long been known as a builder of equipment for the jute trade and so it is understandable that this new system of processing should owe much to the jute system, but the company stresses that it is not a modified jute system, but rather a completely new means of producing very cheap, long-staple synthetic-fiber carpet yarns. High production and low costs are the two outstanding features claimed for the process.

The pilot unit installed in Mackie's own plant is designed to produce yarns from 1s to 3s cotton count. Similar units have been shipped to the United States, where they are already running commercially.

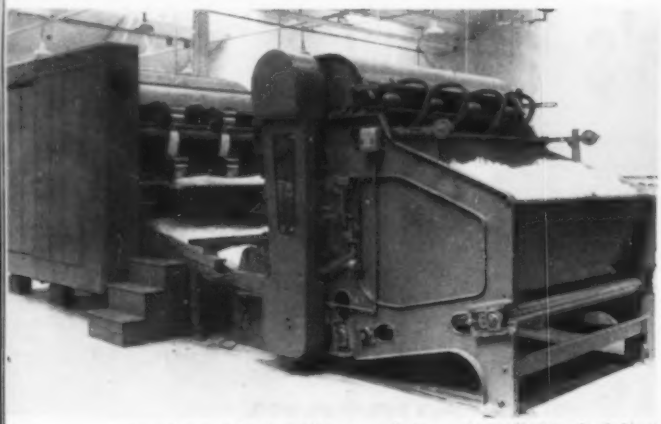
Pilot-Plant Organization. The Belfast plant has a theoretical output of 200 lb of yarn per hour, and it should be possible to run this at over 90% efficiency with little trouble. Immediate staff consists of four women and one man. Calculated on local rates, the labor cost per pound of yarn is about 1.11 cents.

Machinery required for this production is:

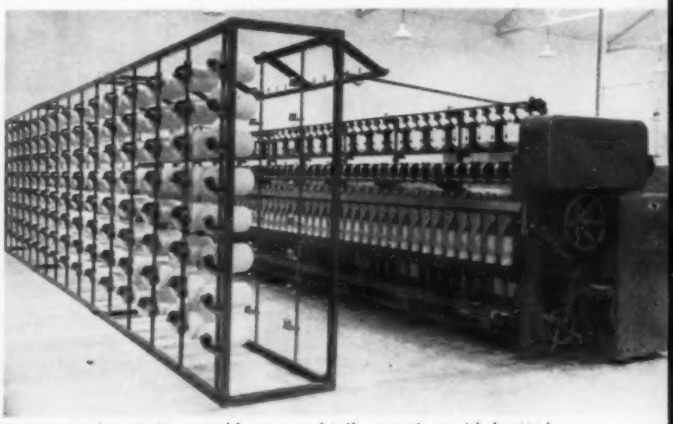
1 automatic card feed
1 No. 4 synthetic card
1 first passage intersecting "Pinmack" draw frame
2 finisher intersecting "Pinmack" draw frames
2 automatic doffing gill spinning frames
2 automatic doffing twisting frames
1 "Mackroll" cone winder (16 spindles)

Blending and Carding. Initial blending is important, and a picker-type opener feeds fiber into blending bins through a Venturi-type fan conveyor. There are three bins, each with a capacity of 2,000 lb. If it is desired to apply say a fiber moistener, lubricant, or antistatic agent to the fiber, it is simple to incorporate a small unit at this phase.

From these three blending bins the fiber is drawn to a lattice—capacity 300 lb—that feeds a



Automatic card feed and No. 4 synthetic card installed in the Belfast pilot spinning mill.



Battery creel on twister enables top-and-tail operation, with knotted or latexed piecings.

hopper blender which is coupled to feed a further three bins, also of 2000-lb capacity. This gives a good opening of fiber and also quite an intimate blend.

From the final blending bins the fiber is taken to the automatic card feed. A presser plate is used to ensure that fiber is evenly distributed over the vertical pinned feed sheet. The amount of fiber carried by the sheet can be varied by adjusting the distance from the pins of a reciprocating comb situated at the top of the sheet.

The fiber is then dropped into an automatic weighing hopper which dumps fiber on to the card feed. This automatic weigher can be varied to give from two to five dumps per minute. Feed here can be set so that more dumps per minute can be given of lower weights of fiber or vice versa.

An interesting blend was being run when we visited the plant, this being a mixture of:

25% 50-den 4" dull rayon staple.

75% 15-den 6", No. 2 crimp, dull rayon staple.

The hopper was dumping 18 oz on the lattice, to give a production rate slightly in excess of 200 lb per hour.

Special card clothing has been used on the card, which has a main cylinder measuring 6' x 5'. Six pairs of workers and strippers serve the double doffers, which give three slivers each. An interesting feature of this new card is that it can handle equally well crimped or uncrimped staples of 4" - 7"; it is suitable for a wide range of man-made fiber staples.

Drawing. The next phase of production is essentially similar to the Bradford worsted system. Sliver is taken to an intersecting gill box which runs at 3,500 inches per minute. An automatic yardage counter is fitted to the machine and this can be calibrated against the weight of the sliver so that when a desired length has been fed into the coiler can the machine automatically stops. During our visit to the plant the box was running on a sliver of 16½ lb per 1,000 yd.

Drafting range can be varied from 6 to 14½. The nip in front of the final row of pins can be adjusted from a minimum of 20 mm to a maximum of 60 mm. This variation in distance from the final fallers is intended to permit drafting of a wide range of staple lengths, the ideal setting being optional. Draft is varied by changing only one cogwheel.

A 12-volt stop-motion is fitted to sliver feed from can so that should the sliver break or run out the machine stops and an indicator lamp goes on. On the delivery end of the machine is an 8-volt detector system to detect lapping. Should the sliver build up on the delivery rollers this causes the tension roller to rise and close a contact and so stop the machine.

Accommodation is made for variations in fiber crimp. If a bulky fiber gives a voluminous sliver this can be reduced by slightly underfeeding the sliver into the gill box, while an uncrimped fiber sliver can be overfed.

The sliver is fed into the finishers. There are four doublings on the first and six on the second giving a total of 24 doublings in all. By the time the sliver emerges from the finishers it is 8.25 lb per 1,000 yd.

Spinning. Spinning of this sliver results in a singles yarn of 1.8s cotton count. The spinning frames are specially designed gill spinners. Although two such frames—4¾ and 5½ pitch—have been installed, one or the other would normally be specified, according to the counts intended to be spun. Vacuum broken end collection is fitted to the frames and there is a simple mechanical broken end stop-motion.

Doffing on both frames is simple. A row of empty bobbins is wound into position below the full spindles and as these are lowered the empties are raised into position and spinning started up again. It takes only about a half-minute to doff and start up again.

Although running at only 4,200 rpm, the 4¾-pitch machine is capable of running at up to 4,500 rpm. It produces a 1 lb 2 oz package, while the 5½-pitch machine, which runs at 4,000 rpm, gives a 2 to 2¼ lb bobbin.

A simplified yardage counter and knock-off is used. This is a counter that counts the number of lifts of the rail. It is known how much yarn is spun in one rise and

colors wake up and sing... when you print or dye with ***AMANTHRENE****

With Amanthrene Vats your cottons and rayons will come vibrantly alive . . . and stay that way — color-fresh and as bright as spring. Amanthrenes give outstanding color fastness to washing and to light in both paste and powder forms. A complete range of these superior vat colors enables you to satisfy each and every individual requirement.

For full information and samples or a demonstration, simply contact your local Koppers representative. And don't forget — our laboratory facilities and technicians are readily available to assist you every step of the way.

*REG. U.S. PAT. OFF.

KOPPERS COMPANY, INC.
CHEMICALS AND DYESTUFFS DIVISION
Pittsburgh 19, Pa.

KOPPERS

(FORMERLY AMERICAN ANILINE PRODUCTS) **PLANT:** Lock Haven, Pa.

BRANCHES: Providence, R. I. • Philadelphia, Pa. • Paterson, N. J. Chicago, Ill. • Charlotte, N. C. • Chattanooga, Tenn. Columbus, Ga. • Los Angeles, Calif.

IN CANADA: Dominion Anilines & Chemicals, Ltd., Toronto, Canada • Montreal, Canada

KOPPERS DYES ARE RIGHT FOR EVERY FIBER

BLANKETS, CARPET, APPAREL, INDUSTRIAL FABRICS—

You can go places with ACRILAN,® the acrylic fiber by Chemstrand, because ACRILAN has gone places—so successfully—in such a tremendous variety of end products. For example:

ACRILAN is responsible for a soft, lush blanket that machine-washes and machine-dries magnificently. The only blanket in its field to win the American Institute of Laundering Seal. A best-seller in its field to boot!

And ACRILAN® carpet made with Chemstrand's acrylic carpet fiber? You'll hear from all sides that it's the most notable promotable to hit the industry in an age! Reason: it's made from the most resilient fiber ever used in carpeting. And what a hypo this has given sales figures!

ACRILAN put the sales bounce back into jersey ... gave it a glorious fashion renaissance in women's apparel ... made it the men's shirting everyone was shouting for ... and a big deal in little girls' clothes—by making it automatic wash & wear.

What could ACRILAN possibly add to the soft hand of men's wear flannel, to the splendor of luxury woven fabrics? Washability, that's what! Washability turns out to be the magic word when it comes to making sales.

In deep pile throw rugs, on-the-job clothes, fender cloths, too— ACRILAN has made the grade with consumers by delivering the kind of performance values they demand. Consider the ways you can put ACRILAN to work in your mill. You'll congratulate yourself for doing it.

THE CHEMSTRAND CORPORATION • GENERAL SALES OFFICES: 350 FIFTH AVE., NEW YORK 1, N. Y. DISTRICT SALES OFFICES: 350 Fifth Ave., New York 1; 3¼ Overwood Rd., Akron, Ohio; 197 First Ave., Needham Heights, Mass.; 129 West Trade St., Charlotte, N. C. Canadian Agency: Fawcett & Co., 34 High Park Blvd., Toronto, Canada • PLANTS: ACRILAN® ACRYLIC FIBER and ACRYLIC CARPET FIBER — Decatur, Ala.; CHEMSTRAND® NYLON — Pensacola, Fla.

fall, so the length of package (or weight) can easily be calculated in lifts. When a required number has been reached the machine is automatically stopped.

Winding and Twisting. Winding onto cones is the next phase, these cones being used for the twisters. The winders run at 500 yards per minute. The same frame is used for rewinding the doubled yarn into the final packages. Normally the machine winds into 12- to 14-lb cones. The wound cones are used in the creels of the two twisters, which ply two, three, or four ends of yarn.

Cones in the creel are top-and-tailed in pairs. If yarn is to be used for tufting then a latexed splice is used, while for traditional carpets a conventional knot is used.

The twisting frames run at 3,300 rpm, and a twist of 3.1 tpi is inserted.

The motion is very simple and mechanical. Should one end of the yarn being twisted be broken then the motion at once breaks all other ends on that spindle. This means that there is no danger of a long length of yarn being produced with one end out, causing a serious fault in a finished carpet.

A similar yardage measuring system to that used on the gill spinners is used here. The lifts of the rail are counted and when the required number have been made the machine is stopped.

After the bobbins of yarn have been twisted the final process of rewinding takes place to give a quality yarn package of about 14 lb. If desired, it would be a simple matter to attach a yardage measurer for these bobbins so that each would carry the same length of yarn.

Winder production

(from page 179)

and 5. The main changes occur in columns 6 to 11, and they should be left blank.

THE FOLLOWING are some significant benefits reaped from this method:

1. A greatly improved braiding production.

2. Fewer winder changeovers, resulting in an increased winder production.

3. A better awareness of the over-all production picture made possible earlier decisions as to yarn utilization, which resulted in a decreased materials inventory.

4. The method is simple and flexible and allows for unexpected changes in production and methods.

The disadvantages are:

1. Amount of work involved in starting method.

2. Clerical work involved in maintaining method.

3. Possibility of clerical errors which may disrupt the attained balance.

In any event, when the job is done and done properly, the advantages prove to outweigh the disadvantages.

Dial gauges improve Fibrograph

by Joseph T. Rouse

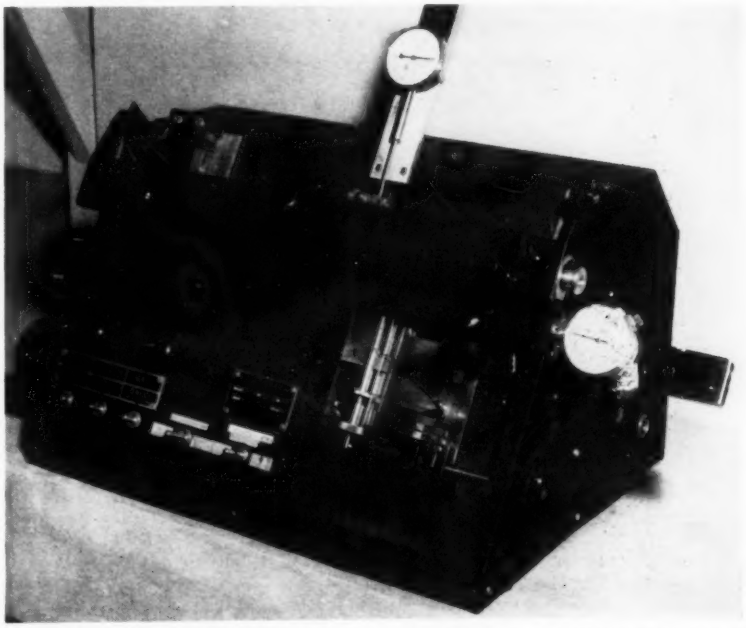
Extract*

■ TO COMBINE speed and accuracy in measuring cotton fiber length, specialists of the Agricultural Marketing Service have modified the Fibrograph instruments which electronically scan cotton samples.

In use since the early 1940's, the Fibrograph offers a comparatively fast and reliable method of measuring fiber length and length uniformity. Unfortunately, it does not provide the detailed information obtainable by the older, time-consuming array methods.

By adding dial gauges to the Fibrograph instrument, cotton technologists are able to obtain both a speedy test and reproducible length and uniformity information. What they did was to replace the Fibrogram recording mechanism with two dial gauges. One of these dials measures the length of the fiber and the other the relative number of fibers.

Tests show that it takes no longer to operate the instrument with the dials than with the Fibrogram. And, the dials give much more accurate length and uniformity readings.



*From *Agricultural Marketing*, July 1958.

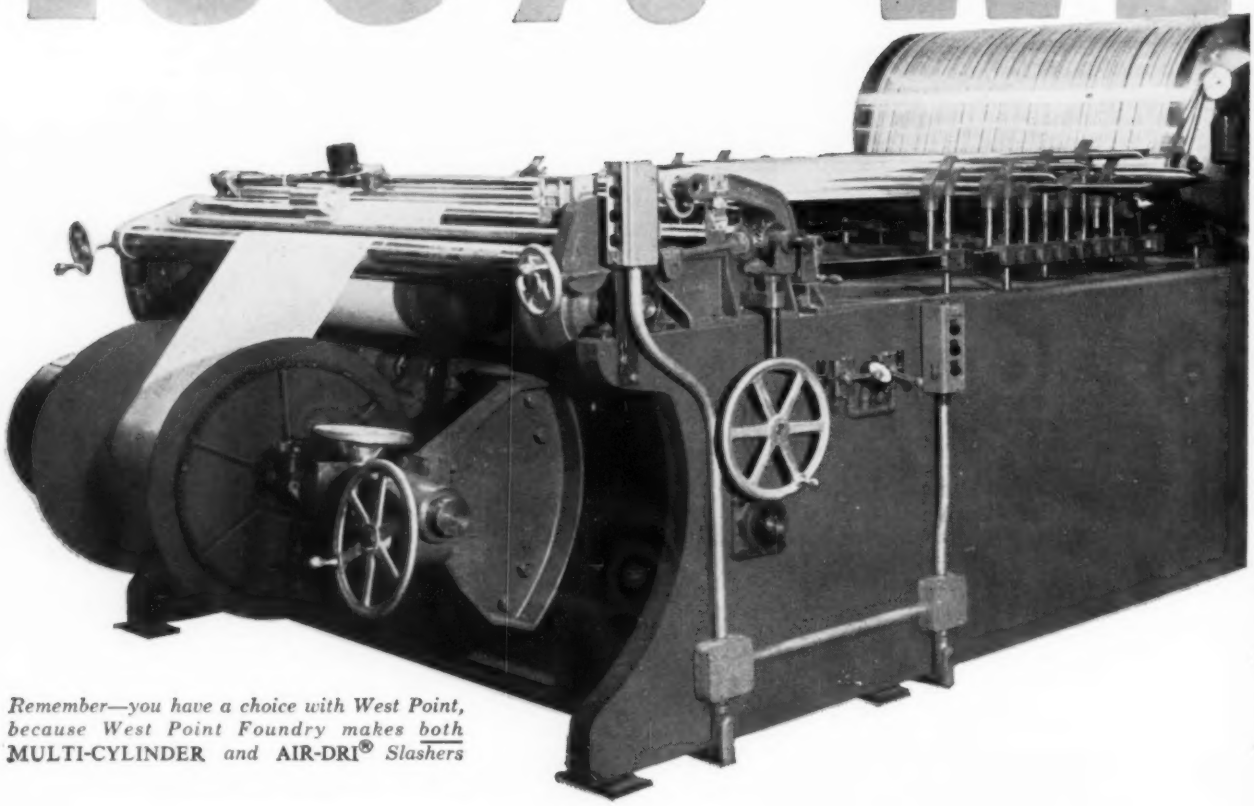
THE SPRINGS COTTON MILLS, Fort Mill, South Carolina. Six plants of Springs Cotton Mills run 29 West Point Slashers.

DUNDEE MILLS, INC., Griffin, Georgia. Three West Point Foundry Slashers replaced seven old slashers.

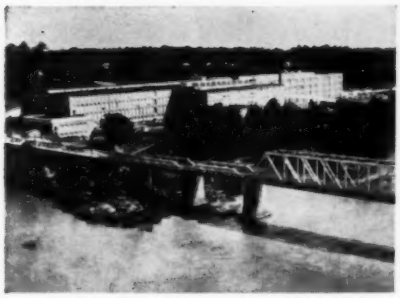
LYDIA COTTON MILLS, Clinton, South Carolina. Two West Point Foundry Slashers replaced four old slashers.

These six pace-setting

100% WE

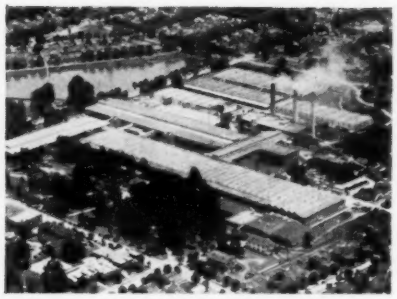


Remember—you have a choice with West Point, because West Point Foundry makes both MULTI-CYLINDER *and* AIR-DRI® *Slashers*



TALLASSEE MILLS of the Mount Vernon Mills, Inc., Tallassee, Alabama. Six West Point Slashers replaced nine old slashers.

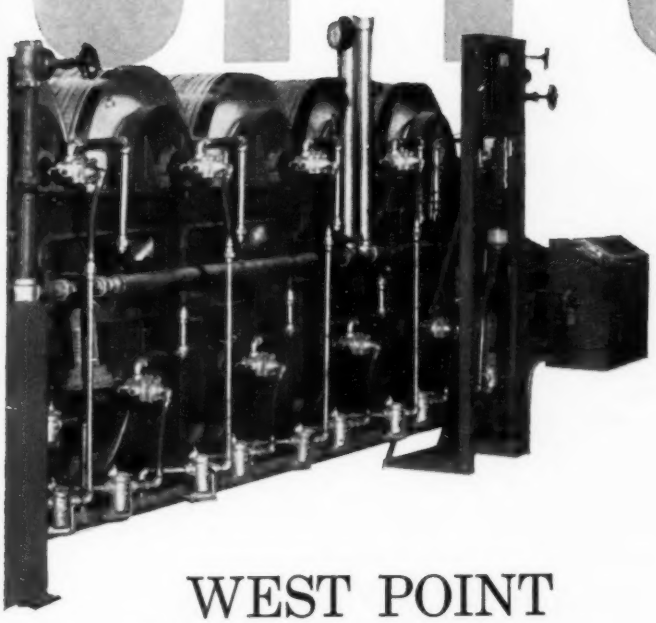
PACOLET MANUFACTURING COMPANY, New Holland, Georgia. Five West Point Foundry Multi-Cylinder Slashers in this mill.



CONE MILLS CORPORATION, White Oak Plant, Greensboro, N. C. Five West Point Multi-Cylinder Slashers replace 16 old slashers.

textile mills are all...

ST POINT



ALL OF THE SIX leading textile mills pictured have 100% West Point Foundry slasher installations.

ALL OF THE SIX are slashing their warps on fewer slashers in less slasher hours, realizing lower production costs, savings in floor space, uniform quality and reduced maintenance. In the last three years alone over 50 textile mills have installed more than 100 West Point Foundry Multi-Cylinder Slashers.

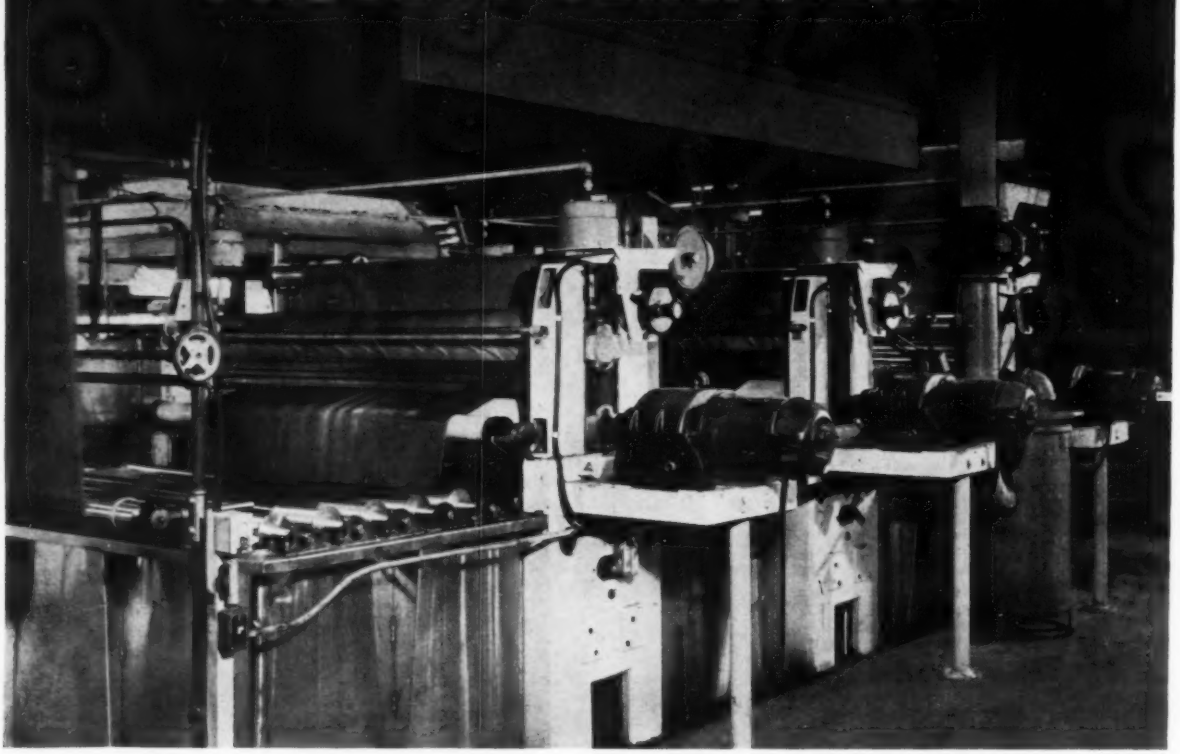
The fact that these textile leaders have chosen high capacity West Point slashers is proof positive of the soundness of this investment.

Whether yours is a complete slasher installation or modernization of present equipment, call West Point Foundry . . . specialists in slashers.

WEST POINT Foundry & Machine Company

WEST POINT, GEORGIA

NEW FLEXIBLE DESIGN GIVES HUNTER WASHER-SOAPER PROCESS VERSATILITY



The Hunter open-width Washer-Soaper's unique flexibility of design permits you to integrate more of your own design requirements into a basically rugged, fast and dependable piece of equipment. Hunter will build virtually any arrangement of compartments, squeeze rolls and overflows to satisfy your special process needs and fit most efficiently and economically into the overall operation of your mill.

LOW-LEVEL OR DEEP TANK MODELS. Top idler rolls can be mounted on overhead framework for 22" tank, or on tank ledge where deep tank washing is preferred. Size and compartmentation of tank, and number of immersion rolls, are optional. Complete counterflow systems are available. All tanks are sturdily braced, specially polished heavy gauge Stainless Steel, with rounded corners for easy cleaning.

SQUEEZE ROLL PRESSURE TO 10 TONS. Compact, direct-acting pneumatic squeeze rolls can be specified for 2-ton, 5-ton, or 10-ton pressure limits. Flats are prevented by *automatic lift feature* of top roll when air is off. Compact direct-acting squeeze roll stands minimize friction, and facilitate mounting of auxiliaries.

AUXILIARY EQUIPMENT. Auxiliary spraying, steaming, brushing, expander, compensator and folder equipment can be supplied, as well as plate coil partitions, drip pans, stands for direct coupled drive, entering shakedown rigs, and air guiders.

Let us know your requirements. We will be glad to send you full details and specifications pertaining to your specific situation.

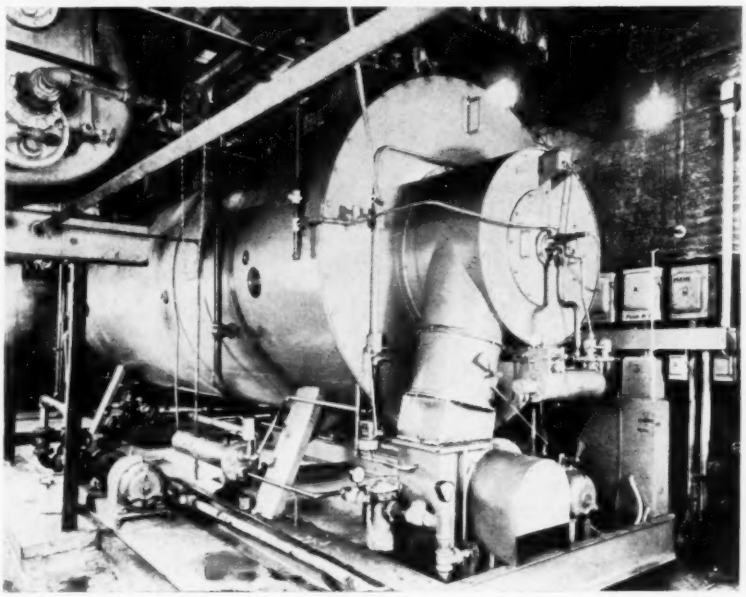
JAMES HUNTER

JAMES HUNTER MACHINE COMPANY • NORTH ADAMS, MASSACHUSETTS

Subsidiaries: *James Hunter, Incorporated, Greenville, S. C. • Hunter Fiber Machine Co., Los Angeles, California*
Thomas Leyland Co., Readville, Massachusetts • Hunter Controls, North Adams, Massachusetts

See us at Booth No. 474 at Greenville October 6th to 10th

This 500-hp packaged automatic boiler at Reliable Dyeing & Finishing Co., Inc., stands in a spot formerly occupied by a 43-year-old 150-hp horizontal return tube boiler. Make-up water is preheated by steam coils in the 3,000-gallon tank at the upper left and maintained at the proper temperature until called for by the new boiler.



$100 a day savings in steam costs with automatic boiler

■ RELIABLE Dyeing & Finishing Co., Inc., Paterson, N. J., is saving about $100 each working day in steam costs as the result of installing a new, oil-fired, 500-hp, packaged, automatic boiler, Louis Shafer, secretary of the firm, estimates. The uniformity and quality of the steam supplied are said to have also resulted in a more efficient production.

In an average day, the savings are as follows:

370 gallons of oil	$31.60
2½ tons of coal	32.50
Man-hours eliminated	25.60
Total	$89.70
Increased electricity cost	6.00
Net Saving	$83.70

It is difficult to assign monetary values to other savings such as those resulting from the elimination of stoppages and spoiled materials and from decreased maintenance costs on the new boiler. However, $16.30 per day is considered conservative. This rounds out the total savings to the owner's estimate of $100 per day, as previously cited.

Reliable dyes, bleaches, and finishes textiles, its particular specialty being the fabrics from which table cloths are made. Steam is used to heat the solutions and to dry and finish the dyed fabrics. Most of the equipment requires steam at high pressure (120 psi). Plant heating is minor—only 10 per cent of the total load as compared to 90 per cent for processing steam.

Prior to the installation of the new boiler, the variable demand was being met by three 150-hp boilers of the horizontal return tube type. One was hand-fired with bituminous coal, and two were fired with No. 6 fuel oil under manual control. Of the oil-burning units, one was 43 years old and had been condemned by the state boiler inspector because of the condition of its brickwork. Brickwork of the other was not in good condition either, and the old brick stack that served the two oil-fired boilers was also in need of repair.

Something had to be done and done in a hurry. The question: Was it worthwhile to spend several thousand dollars to keep two obsolete boilers in service? Or could the money be more profitably applied to the purchase of a larger boiler, one that could carry the entire plant load?

Even if brickwork and stack were repaired, this would only restore the old boilers to running order. It would not assure an efficient operation.

The decision was reached to abandon the old boilers and put everything on the new boiler. After some discussion, a 500-hp "Steam-Pak," manufactured by York-Shipley, Inc., was selected.

Despite its greatly increased horsepower rating, the new packaged boiler fitted into the floor space formerly occupied by the 150-hp boiler that had been condemned. No pitting, brickwork, or high stack was required in making the installation. The packaged boiler includes a blower to provide the exact amount of air needed for most efficient combustion.

A further and equally important advantage was the elimination of hand firing. Now the boiler room personnel has only to make regular inspections and perform the scheduled maintenance. Once the controls have been properly set, steam is furnished automatically in response to the drop in pressure on the total system, all demands throughout the plant being integrated by an "electronic brain."

The new boiler shuts itself off every night at 9 p.m. This wholly automatic operation has eliminated the need for the night shift. Where four men were formerly required by the boiler room, only two are needed now.

The coal-fired boiler and the old oil-fired boiler are no longer being operated but were left in place for standby service which so far has not been required. Previously, the coal boiler had been fired 24 hours a day, five days a week. It took around-the-clock attention and burned 2½ tons of coal a day. Coal consumption has been entirely eliminated.

The two 150-hp oil-fired boilers had formerly been operating about 9 hours a day at an average firing rate of 65 gph each. Simple arithmetic shows that the two together would burn 1,170 gallons in an average day. Though using the same No. 6 fuel oil, the new packaged boiler consumes only 800 gallons per day because of its much greater efficiency. The difference is the 370 gallons per day reported in the table of savings.

announcing...

THE AMERICAN *IDEA

in Celanese

What the Celanese 1959 promotion "The American Idea" means to a grey goods mill

Celanese believes that the only sale that counts in the textile business is the retail sale.

We, at fiber level—you, at mill level—still base our profits on what happens when Mrs. America comes into the retail store.

That's why the announcement of "The American Idea," our Fall 1959 Home Furnishings Promotion is so important to you *now*—a year in advance. Only through this type of long-range planning can you be sure your goods will be where the crowds are, when the big promotion breaks next Fall. At that time millions of yards of fabrics containing Celanese fibers will move at retail under the banner of this single selling idea—"The American Idea."

This is the third year that Celanese has staged a major home furnishings fabrics promotion—backed by powerful national advertising, decorating shows, strong editorial publicity, point-of-sale aids of all kinds.

Last year converters styled over 1200 fabrics for inclusion in this promotion. Hundreds of top stores gave over whole departments to it. And 1959 will be bigger.

This is something every key person in your organization should know about. Talk to your home furnishings converters now. Get set on basic constructions and other big run fabrics in all of the appropriate Celanese fibers—acetate, Arnel triacetate, Celaperm acetate, Fortisan rayon and Celaire acetate.

And don't forget—Celanese has a wealth of new fabric information and technical data that's yours for the asking. Ask your Celanese salesman. Celanese Corporation of America, New York 16.

Celanese® Arnel® Celaperm® Fortisan® Celaire®

contemporary fibers

LOOKING FOR SOMETHING NEW?

SEE IT DEMONSTRATED
IN BOOTH

451

SOUTHERN TEXTILE EXPOSITION

ADAMS, INC.

209 EAST STONE AVE. GREENVILLE, S. C.

THE GOLDBRICK SCHEMES

A discussion of the fundamental nature of socialism and some of its outgrowths, such as Communism, New Dealism, Fascism, and Nazism

by Ringgold Arden
Exclusive

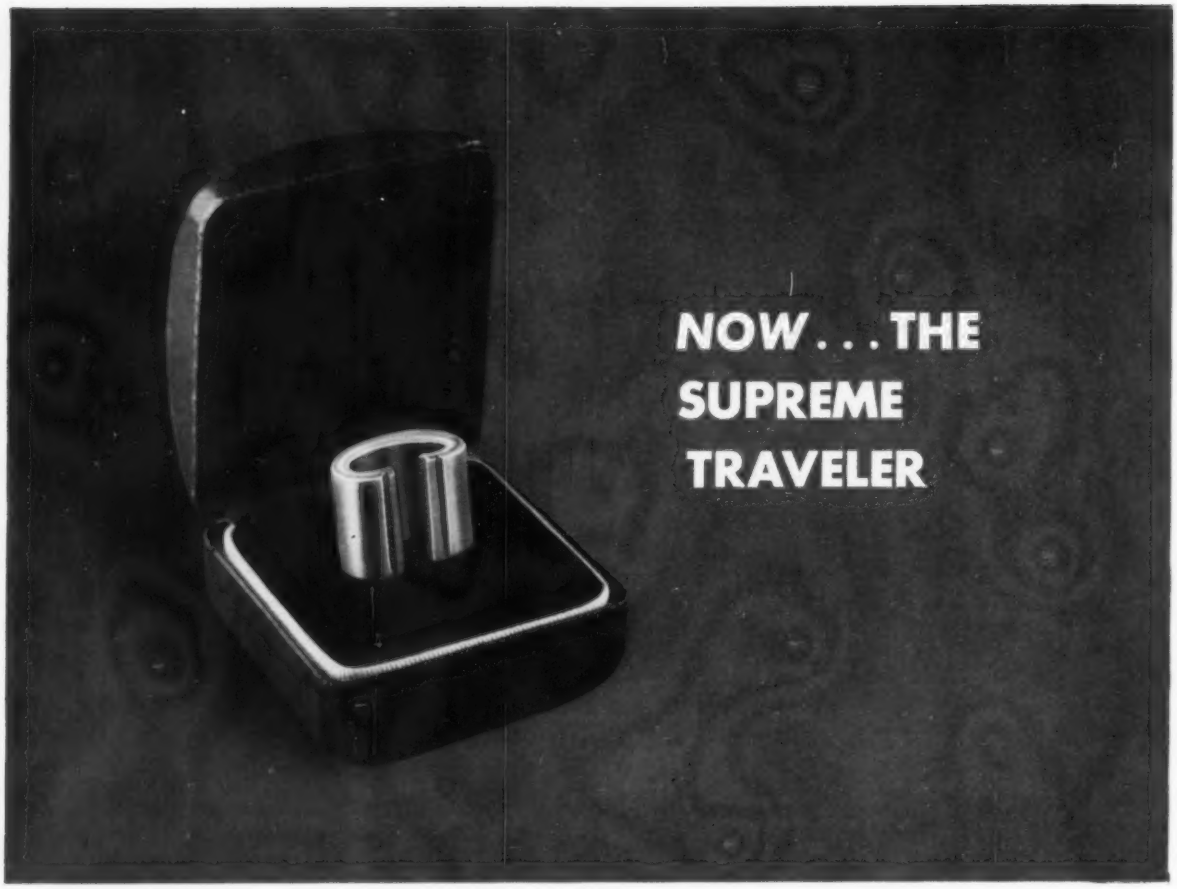
SOME TIME ago one of our readers asked that we discuss the fundamental nature of socialism and some of its excrescences, such as Communism, New Dealism, Fascism, and Nazism. This gentleman felt that while many persons had come to believe that these social systems were not working out, and had many bad features, they were not familiar with their inherent evils and inescapable weaknesses, and that any attempt to point these out would be helpful in getting people to understand why it is so difficult to make any of these systems work, and why it is doubtful if any of them can be made to work for any great length of time.

Probably very few persons have bothered to learn anything much about what socialism with its various ramifications really involves. Most people probably do not realize that communism is simply a radical form of socialism in which the socialistic ideas acquire the fanaticism of religious fervor. Communism itself is not well understood in this country, and most persons think of the implications of the word as it is spelled with a capital "C," which stands for the system of communism as it was developed in Russia and applied to that country and its conquered satellites.

Originally, the term "communism" was interchangeable with "socialism." The two principal patron saints of the socialist doctrine, Karl Marx and Friederich Engels, apparently made no real distinction in the use of the two words. Actually, socialism or communism is a natural and almost inescapable social organization among primitive peoples who live on a day-to-day basis, without making any attempt to accumulate the things which are essential to civilized social existence. Any small detached tribal community, dependent upon hunting and fishing for subsistence, has to operate as a community unit. The alternative to hearty and complete cooperation is generally starving, freezing, or extinction at the hands of a hostile tribe. This cooperative form of social existence was general for so many centuries that many philosophers, poets and writers have hoped that the world could achieve happiness and enjoy peace if people could only be brought back to a recognition of the advantages of cooperation rather than endless warfare.

While this communist form of social organization worked well with people who had neither the desire, nor the opportunity, to personally own anything, communism went out of favor as civilization developed, because a settled form of life encouraged the accumulation of goods and property and lessened the necessity for the active cooperation necessary for survival in more primitive times. It is quite possible that the whole fabric of civilization has rested upon the long accepted right of people to own and enjoy the use of property, which is the very antithesis of communism. The communist is essentially a mass-man, and the great forward movements in civilization were not made by mass action, but by the impact of extraordinary intelligences upon the mass mind.

AT THE TIME of Marx and Engles, European society could hardly have got any further from the communist conception. For more than a thousand years Europe had lived under a feudal system which assumed, in theory, that everything belonged to some ruler who held title to it by divine right. This ruler parceled out portions of his dominion to dependable favorites, and they in turn to their favorites, but all real property was still technically supposed to belong to the sovereign. An arrangement of this sort naturally put the control of virtually all property into



Superior Performance to match its name!

Years in the development and testing state . . . months in actual use by large mills under every conceivable operating condition—the new CARTER "Supreme" traveler is now ready.

The secret—a gleaming, satin-smooth, *plated* finish —increases traveler life over 1,000%, in some cases. One large mill, changing travelers every 12 hours, now runs the "Supreme" *a minimum of four weeks!* It also completely solves the troublesome rust problem, and permits maximum control of neps.

You get longer, smoother running with far less down time . . . you save labor costs with fewer traveler changes . . . you get improved yarn quality and strength when you specify CARTER "Supreme" —a superior traveler in every sense of the word.

Ask your CARTER representative to tell you the "Supreme" story today.
Be sure to see our exhibit at the: SOUTHERN TEXTILE EXHIBITION, BOOTH NO. 108

REPRESENTATIVES

R. A. Haynes,
Special Representative..114 W. Fifth Ave., Gastonia, N. C.
W. L. Rankin.....501 S. Chester St., Gastonia, N. C.
D. E. Phillips.....2702 Garden Lakes Blvd., Rome Georgia
P. L. Piercy.....128 Hudson St., Spartanburg, S. C.
J. R. Richie.....1307 Crabapple Lane, Raleigh, N. C.
J. K. Davis.....P. O. Box No. 129, Auburn, Ala.
C. E. Herrick.....139 Main St., E. Greenwich, R. I.
Oscar S Lapham.....139 Main St., E. Greenwich, R. I.
L. O. Talley.....P. O. Box 1169, Mexia, Texas
Hugh Williams & Co.....27 Wellington St., E., Toronto, Ontario, Canada

Carter
TRAVELER COMPANY
DIVISION OF A.B. CARTER, INC. MANUFACTURERS OF THE BOYCE WEAVERS KNOTTER GASTONIA, NORTH CAROLINA

the hands of a very small number of persons, and the bulk of the population had nothing, or practically nothing. These common people had groaned under this type of exploitation and oppression for centuries, but during the uneasy times of the Dark and the Middle Ages, there seemed to be no possibility of ever changing the system, because armed might afforded the only protection to the owner of anything worth taking.

Into a social system based on the general principles of feudalism, the Machine Age burst less than 200 years ago, and immediately began to change conceptions of wealth and value. In a few decades after the first introduction of power machinery, it became quite evident to thinking persons that there was practically no limit to the capacity for multiplying wealth by mechanization of old operations and the creation of entirely new things. The multiplication of this wealth, however, was thought to be a prerogative of the established upper classes, who alone commanded the capital necessary to buy machinery and build factories in which to install it.

The lot of the common people for many years was not improved by these possibilities for the increased production of wealth, and, if anything, these people in many countries were worse off than before, because instead of living in reasonably comfortable quarters on the estate of some rich man who could not afford to let his servitors starve to death, they were herded into frightful tenements and employed in places where nobody cared whether they lived or died, and the only interest of the employer was wringing the last penny's worth of work out of the unfortunate workman, and paying him the lowest possible wage that would keep soul and body together.

It was not surprising that social philosophers like Mark and Engels were appalled at industrial conditions as they existed at that time. They were simply two of many who were seeking an improvement in the existing state of affairs, and trying to evolve some system for permitting the common man to participate in the greatly increased prosperity that machines made possible. Apparently, Marx and Engels were convinced that only a return to the communist principles of a primitive society could bring about the reforms for which they, and many others, hoped.

Marx wrote his ponderous work, "Capital," to analyze the workings of the economic system under private control, but never seemed to grasp the idea that the capitalist system could ever grow into anything beneficial to the people at large. Marx could only see the capitalist system as an extension of feudalism, designed to endlessly extort from the vassal for the benefit of the lord. He felt that the whole thing needed to be torn down and built over, and he clearly realized that this could not be done the way he wanted to do it except by brute force.

As an economist, Marx was an able man. His exposition of the capitalist economic system was the result of painstaking investigation, and it was sound enough. Marx the economist did a good job—it was Marx the political reformer who opened the Pandora's box which flooded the world with the evils caused by communism today.

THE FOLLOWERS of Marx developed his teachings into a sort of religion. Whereas most religions deal with rewards in some world to come, the religion of Marx promised the rewards here and now. It was a religion which took a powerful hold upon the imaginations of millions of persons who knew and cared nothing about the technical details of the philosophy Marx had developed. Many of his followers preached it as a religion which offered salvation right now by promising to take away from those who had it, the surplus of things they didn't need, and give these to people who did need them.

Religions can be built around different things and excite equally fanatical fervor in the devotees. A stone, a mountain, the sun, an idol, or any other symbol may serve, and people can be just as fanatical in defending the Marxian theories as a sort of religion as they can be defending any other religious beliefs. These Marxian doctrines developed many sects, just as any religion will develop sects, and it is impossible to get any clear understanding of what socialism has been doing to the world without recognizing this fact. The Russian Communist regards with the utmost loathing the German Nazi, and he in turn looks with contempt upon the Italian Fascist, and all of them look down on the relatively moderate British Socialist. Our own New Dealism was an extremely diluted form of socialism, but still socialism, and we have not yet decided in this country whether to have more socialism or less.

THE WHOLE STRUCTURE of socialism and all of its manifestations is based on the assumption that the State should control the principal sources for the production and distribution of goods. When you have once accepted that thesis as the basis of an economic religion, you have let down the bars to go as far afield in the socialist pastures as you please. The Russian Communists decided to go all the way and declared that the grocery store, the haberdashery shop, and the tenement, were all agencies for contributing to the welfare of the people, and should be publicly owned and managed. That is, the Russian Communists felt that the State should own the cow, feed it, milk it, and distribute the milk as a bureaucratic government dictated.

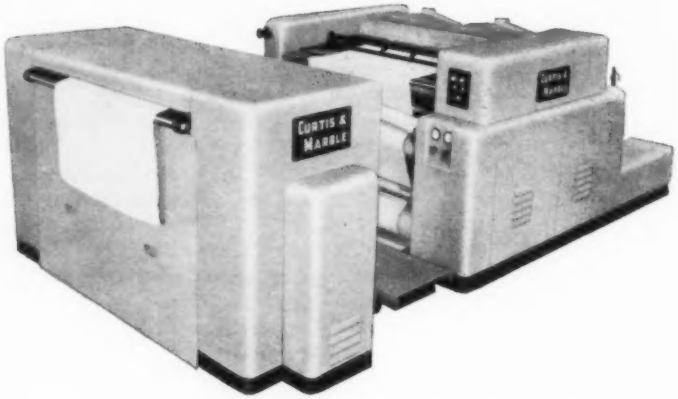
The Nazis and Fascists believed that it was quite appropriate to maintain the semblance of private ownership so long as the State controlled it. They believed that it was all right to let somebody else own the cow and feed it so long as the State controlled the milking and the distribution of the milk.

In any case, socialism implies responsibility on the part of the State for the welfare of the individual, and different socialist sects have different ideas about the exact methods to be used in accomplishing this goal, just as different Christian sects have different ideas about the best way of getting to Heaven; and there is no more difference between the wildest Russian Communist and the most conservative British Socialist than there is between the most conservative Christian sect and the people who express their religious fervor by handling rattlesnakes and drinking poison.

(Continued on page 268)

M125 BRUSHER & SHEAR

For faster and better brushing and shearing of cotton goods the M125 Brusher and M125 Shear give top quality performance. Both machines have all newest automatic features and adjustments for high speed operation with all moving parts safely encased in steel covers. Standard sizes for goods 50", 60" and 72" wide.



Look at your cloth room operation in the light of new machinery now available. Technological progress has already taken the profit life out of many machines now in use. Get the facts about new Curtis & Marble machines from one of our engineers. Keep ahead of competition! Find out why more textile men choose "C & M".

SEE THE SEWING MACHINE AND B-H INSPECTOR AT THE TEXTILE SHOW — BOOTH 235

RAILWAY SEWING MACHINE

High speed Singer Head with automatic splash oiling system and chain stitch. New positive drive. Merrow Head optional. All widths.

B-H CLOTH INSPECTOR

Newest design for inspecting and measuring large batched rolls and re-rolling into same size roll. Cloth travels towards operator. Sky roll arms for long view. Safety steel side panels. Reverse with scray.

CURTIS & MARBLE MACHINE CO.

72 CAMBRIDGE STREET, WORCESTER 3, MASSACHUSETTS • PLeasant 5-3137

SOUTHERN OFFICE • GREENVILLE, S. C. • CEdar 2-7131 ★ MIDDLE ATLANTIC • 95 SHELDON ST., WYCKOFF, N. J. • TWinbrook 1-0894

Knitting Section

THE PROCESSIN'
IS EASY WITH

Reslon-D

the new hosiery resin
for belt dryers, tray dryers
and regular boarding operation

RESLON-D . . . eliminates sticking, permits processing and pairing of hosiery immediately after removal from the dryer.

RESLON-D . . . stops wrinkling and imparts weighty body.

RESLON-D . . . is easy to apply and compatible with other finishes.

RESLON-D . . . gives a wide range of hand.

W. F. FANCOURT CO.
518 SOUTH DELAWARE AVE., PHILADELPHIA 47, PA.

SOLVING FINISHING PROBLEMS SINCE 1904

SOUTHERN OFFICE—309 E. DAVIS ST., BURLINGTON, N. C.
CANADIAN OFFICE—CHEMTEX PRODUCTS, LTD.
49 DENSLEY AVE., TORONTO 15, ONT.
OVERSEAS—PAYKEL BROTHERS, LTD., AUSTRALIA, NEW ZEALAND

Haystack? No indeed! Smart buyers *know* the dependable way to find top-quality needles for felting, knitting, tufting or sewing is by calling .

THE TORRINGTON COMPANY

Needle Makers Since 1866

Torrington, Conn., U.S.A. • Bedford, P.Q., Canada • Coventry, England

Branches to serve you are located in: New York • Philadelphia • Chicago • Boston • Greensboro, N. C. Atlanta • St. Louis • Toronto, Ont., Canada • Broadgate House, 7-10 Eldon St., London E.C. 2, England Pacific Coast Representative: E. G. Paules, 1762 West Vernon Ave., Los Angeles 62, California

Does 3 OPERATIONS IN ONE

Mill-made machine combines boarding, form-inserting, transferring; saves 7c/doz.

Staff prepared—Exclusive

A HOSIERY boarding and form-inserting apparatus in operation at Mauney Hosiery Mills, Kings Mountain, N. C., saves seven cents per dozen in the boarding and transferring operations on men's hosiery.

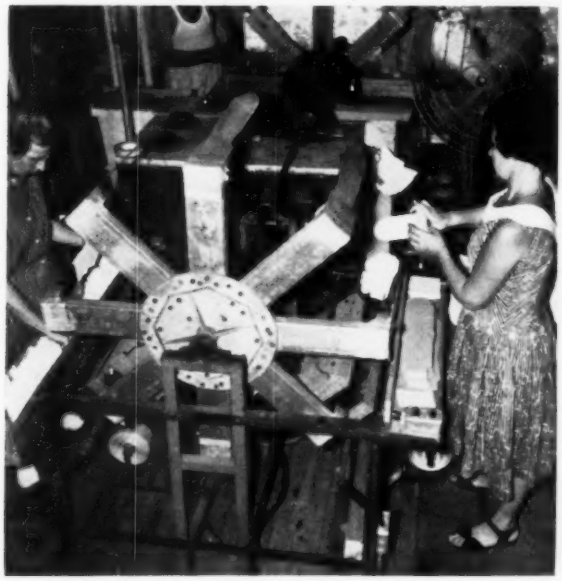
Boarding usually costs about seven cents per dozen, inserting the cardboard costs about seven cents per dozen, and transferring costs about two cents per dozen on stretch socks. The new machine combines all three of these operations.

The prototype machine was built in the mill machine shop and comprises a ½-hp electric motor which drives a ratchet gear attached to a shaft about 10 feet long. The shaft has a "spider" arrangement attached to each end, with a boarding form fixed to the end of each of eight arms. The forms rotate on the shaft at slow speed while the operatives (one on each side of each spider) put socks on the forms on one side of the machine and cardboard inserts on the other while removing socks from the forms. The transfer can be applied on every sock or every other sock, depending upon specifications (see accompanying illustrations.)

Production is about 500 dozens in eight hours, without rushing, for both sides of the machine combined. Timing and machine speed may be altered to accommodate different weight socks. Medium weight nylon

Socks are placed on boarding forms on one side of special machine.

Boarding, inserting, and transferring machine is made up of motor-driven shaft with eight forms fixed to a "spider" wheel at each end.



After automatic presetting and transferring operations, cardboard forms are inserted and socks removed on opposite side of machine.

stretch socks require about two and one half cycles per minute, each cycle being one revolution of the spider shaft.

After each sock is placed on a form, it goes through one electrical heat setting unit, passes through the transferring mechanism where a hot iron fixes the transfer, then the next phase takes the sock through the second presetting heat element. Cardboard inserts are placed in pairs to complete the operations.

A switch is provided near each operator so the transfer mechanism may be stopped should a defective sock appear on a form. This operation as well as others serves as a point of inspection.

Although the prototype machine operates satisfactorily and with negligible maintenance, further developments are under way to apply additional attachments and refinements to the machine, which is to be made available to other mills.

Mauney Hosiery Mills hold patents on the entire machine, which has been in operation for about six months.

Transferring mechanism is located in center near bottom of machine, automatically applies transfer as machine stops momentarily at this point. When machine is stopped, other forms are located at appropriate position for presetting in two boxes located at left and right.

Executive views *(from page 123)*

An inflation can have all kinds of unpleasant side effects. The textile industry is just now suffering from one of these and certain other industries are beginning to suffer. The textile industry, even with reasonably good tariff protection, is largely at the mercy of foreign competition, and inflation has raised the cost of American-made textiles to a fantastic level as compared with the costs of foreign made goods.

Inflation has unreasonably jacked up the wages which monopolistic labor rackets have been able to seize for their members, and that of course has hurt the farmers. The farmer, like the textile worker, is affected by world prices and because we have all of this inflation which has ballooned the cost of everything the farmer must buy, the government has undertaken to maintain the prices of farm products at unrealistic levels.

The result of all of this economic jugglery has been that cotton is selling at a fictitious price in the United States and this price has to be forcibly maintained by the government, while the same government will sell to foreign spinners at a discount of about six cents a pound the same cotton that American mills must buy to compete with the foreign mills. As the government encourages more inflation and higher prices, the farmer will presumably have to get a bigger bonus for his cotton and the foreign mill a bigger discount. We might be able to do something about this situation by building a tariff wall around the United States to exclude cheap foreign goods, but nothing of the sort is going to be done, and quite the contrary, we are lowering our tariff protection.

ALL OF THIS has of course been pointed out many times before, but people need to be reminded about it. These are things that are ruining our textile industry. Every year more and more mills liquidate, as more and more potential consumers are added to our population. The government seems determined to liquidate the textile industry, and this is not as far-fetched an idea as one might think.

All over the world are new spindles turning out tremendous quantities of goods in countries which urgently need many of the things produced in this country. To buy those things, they must have dollar exchange, and they must get the exchange by selling whatever they have that we will buy, and every backward country starts its industrialization program with textiles.

Europe of course is a highly developed industrial entity, and some of our giant industries are beginning to worry about European competition. The funny looking little European automobiles which were considered something of a joke a few years ago are now a really serious problem for the American automotive industry. These cars are made by workmen who are happy to get about 50 cents an hour, and whose standard of living on that wage is, in their estimation, good. The American automobile worker is bitterly dissatisfied with nearly five times as much as contents his European counterpart, and if he got ten times as much he might be twice as dissatisfied.

It is rather difficult to see how the American textile industry could possibly raise wages at this time, or probably ever. As more and more imports of foreign goods squeeze the American textile industry, it will probably just have to shrink, and if nothing is done to reverse the government policies that are causing this condition, the textile industry could in time virtually disappear. If a merchant can buy foreign goods for at least 25 per cent less than the American goods, he can not afford to let patriotism force him into bankruptcy, and he is going to buy and sell what he can handle on a competitive basis.

ONE INEVITABLE RESULT of

(Continued on page 281)

In baseball it's the *Yankees*

In colored yarns it's *Franklin-Dyed*

And here are the reasons:

QUALITY

We dye yarns exclusively on the Franklin compressible spring. This permits uniform density of packages, which promotes uniform penetration of the dye liquor and uniform shades.

SPECIALIZATION

Yarn dyeing is our specialty. We don't dye just to make yarn sales. Our entire organization has but one objective — to provide the best yarn dyeing service available.

CAPACITY

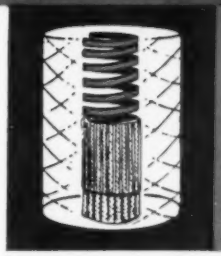
With 4 dye plants, hundreds of package dyeing machines in dozens of sizes and winding equipment to match, we are literally the largest package dyers in the world — ready to dye all types of spun fibres in any quantity.

CONSULTATION

We can help you with your color problems. At your service we have unequalled laboratory facilities, a staff of highly skilled technicians and unequalled experience in time, variety and volume.

AVAILABILITY

Our 4 yarn dyeing plants, strategically located in 4 different textile centers, are conveniently yours. Contact our nearest plant or office.



X-ray view of Franklin Package, the "secret" of uniform shades. Don't say "package dyed". Say "Franklin-Dyed".

Franklin Process

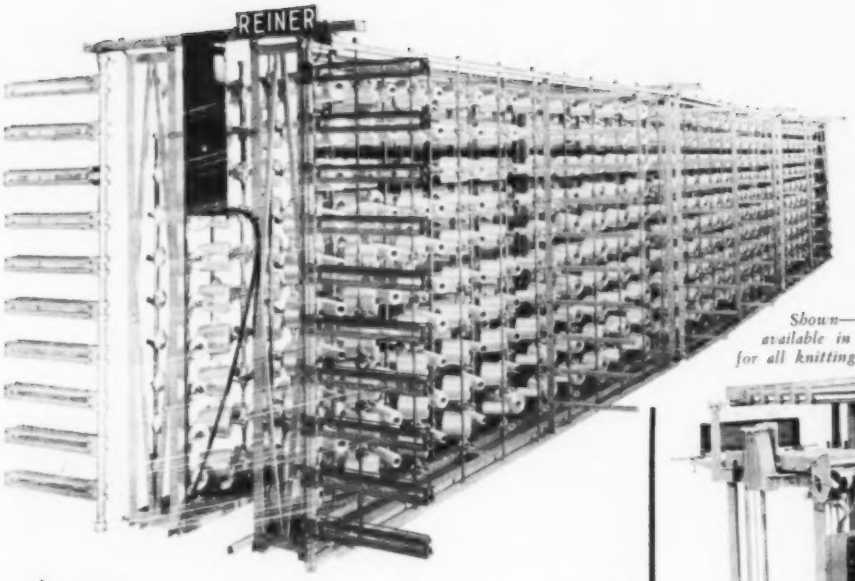
A DIVISION OF INDIAN HEAD MILLS

Dyers of cotton (carded, combed, mercerized) Orlon* (yarn & tow) Acrilan* Dacron** * Ban-Lon® * Helanca * Spun Nylon * Spun Rayon * Blends* Wool and Worsted yarn

Philadelphia* Greenville
Chattanooga* Fingerville, S. C.
New York Office — 111 West 40th St.
Providence Office — 611 Turks Head Bldg.

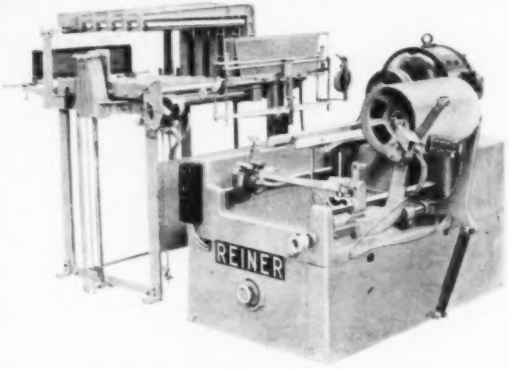
*Trademark for Dupont's acrylic fibre
**Trademark for Dupont's polyester fibre

5-8



▲ *Shown—REINER MAGAZINE CREEL—also available single type and truck creels—heavy duty creels for tire cords, carpets, etc.*

Shown—REINER SECTIONAL WARPER—also available in full width including heavy duty units for all knitting and weaving purposes. ▼



Reiner Warpers and Creels can readily be used with any warp knit equipment.

A PERFECT TEAM

—designed to meet the need for speed, quality and economy—the very essentials for perfect production.

REINER CREELS — Magazine, Single Type, Truck or Special Duty — are of the most modern construction, meeting all requirements, suitable for all yarn packages including nylon pirns. Available with mercury contact, electrical drop lever and loom type (drop heddle) stop motions, balloon control, variable pin disc tensions to serve all possible mill needs, from the finest to the coarsest yarns. Many other features are described in our Creel catalog — yours for the asking.

REINER WARPERS—Sectional and full width—are of rugged construction—able to withstand the highest speeds and heaviest use. The Reiner automatic yarn storage device is designed to take off yarn from the spool to facilitate repairing of broken yarn ends without disturbing the yarn tension. Sectional warpers available up to 84" in length, with flange diameter up to 21". Shorter models adaptable to multiple spools for the milanese and narrow fabrics trades. Many patented features insure ease of handling, safety and above all—quality warps. For further details ask for our Warper catalog.

To Buy Reiner means to have a fully interrelated line of equipment from cone to fabric. It means ready advice and spare part service—in short, the best assurance of profitable and reliable production.

THE REINER LINE INCLUDES:

Tricot Machines—Simplex (Double Knit) Machines—Rachel Machines—Tulle Machines—All Types of Warpers, Beamers and Creels—75 Gauge (4 Section) Full Fashioned Hosiery Machines—Full Fashioned Sweater Machines—Schaffhouse Flat Power Knitting Machines—Automatic Schiffli Embroidery Machines (10 and 15 Yds.)—Multihead Automatic Jacquard Embroidery Machines—Automatic Bobbin Winding Machines (for Stitching and Quilting)—Jacquard Pattern Repeating Machines—Reiner-Famatex Tenters—Menschner Shears; Selvage Trimmers; Gauged Doubling, Measuring & Rolling Machines; Printing, Marking, Sizing & Back Coating Machines; Combining, Palmering, Calendering and Sueding Machines—Gerber Wet Finishing Machines, Ready Spare Parts Service for All Reiner Machines.

ROBERT REINER, INCORPORATED

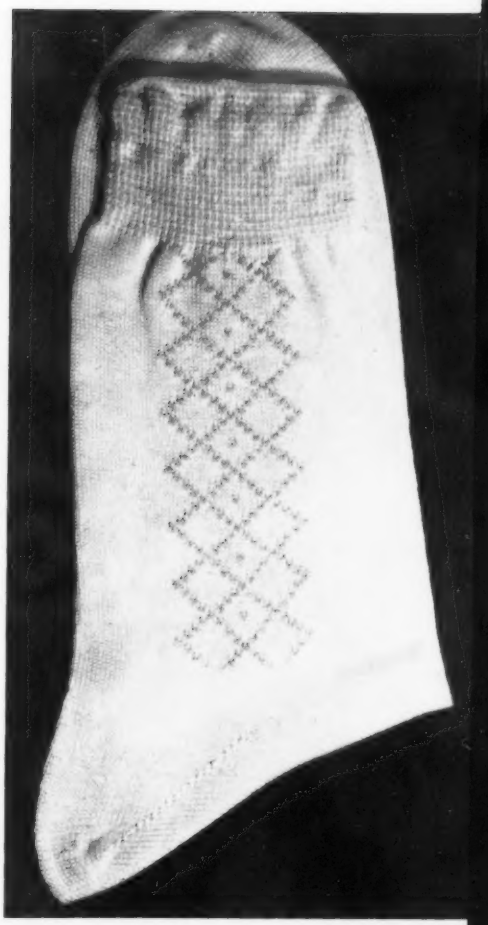
Telephone: UNion 7-0502 — From New York City call LOngacre 4-6882

WEEHAWKEN *(Only 10 minutes from Times Square by direct bus)* **NEW JERSEY**

An Honored Name in Textile Machines Since 1903

Tips for using Lurex metallic yarn

in warp, circular, and flat-bed knitting



Top photo: 1/100" #150 Lurex MM on a 150-needle "Holdstitch" machine for men's socks. Lurex knits with two ends of 20s/1 cotton ground at second feed station. Needles are 36-gauge. Bottom photo: 29s/2 worsted core with 1/100" #150 Lurex MM wrap one end, on a ten-cut sinker-top jersey machine with 18-gauge needles. Knitted plain jersey by itself. Stitch length in the fabric is 0.27".

Extract*

LUREX is a ribbon-type metallic yarn produced by sandwiching either aluminum foil or aluminum metalized plastic between two layers of plastic; these two layers serve as a protective film and they are bonded to both sides of the middle layer by an adhesive. Lurex is also available in supported form, usually with continuous-filament man-made fiber yarns, although worsted, cotton, and silk are also used.

Because of their bendability, strength, and thinness, Lurex MM and MM-CR (chemically resistant) are the types best suited for knitting. The width most used is 1/64", although widths of 1/128", 1/100", and 1/80" are also suitable.

Lurex is designed primarily to give decorative effect to a knitted fabric; it does not give bulk and softness, which must come entirely from the other yarns in the fabric. The flat cross section of Lurex will create harshness if the edges of the ribbon are presented to the edges of the fabric; techniques to make the fabric lie flat are necessary. Supported Lurex yarns usually have a round cross section, and in most cases can be handled as are the supporting yarns when they contain no Lurex.

Feeding. Flat Lurex yarns are generally not suited for running from cones, since they tend to build up twist and become wild if they are delivered from a package over-end. Twist destroys the metallic luster and causes breaking and overstretching. The standard put-up for unsupported Lurex is a disposable spool.

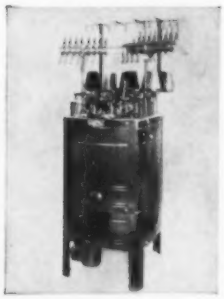
Lurex packages may be mounted on yarn racks in the same manner as coned knitting yarns, but a device must be installed on the rack to hold the spool. It is advisable to use a braking device, particularly on high-speed equipment and on machines which start and stop abruptly. Recommended devices for unrolling Lurex include simple brackets, the Lawson unrolling device*, a spring arm tension control, or a vertical unrolling unit.

The quality and efficiency of Lurex handling depends to a great degree on tension control. Since these yarns can become dull, brittle, weak, prone to chemical attack in wet processing, and possibly cause streakiness in the fabric when they are overstretched, operating tensions should never exceed the yield point of the yarn.

In threading Lurex from the spool to the needles, eliminate tensioning devices wherever possible; if they must be used, furnish slight tension by spring-pressed disks. Eliminate as many contact points as possible; it is always desirable to avoid threading over the

*From Lurex Technical Service Bulletin XI, published by the Textile Fibers Department, Dow Chemical Co.

*Available from Lawson Machine Co., 543 Mineral Spring Ave., Pawtucket, R. I.



Increased Pattern Possibilities

The new Circular Suturing Attachment on the "READING" CK-A widens your pattern range — see illustrations at left. These and other inlaid patterns can now be knitted with clean-edge circular sutures. The CK-A knits a wide range of men's and boys' socks on the same diameter cylinder. It's the fastest producing inlaid pattern machine . . . and the most versatile. Available in 84, 112, or 168-needle count, with 3¾-inch diameter cylinders.

Knitting Machine Division

TEXTILE MACHINE WORKS • READING • PENNA.

Builders of Textile Machinery Since 1900

The "READING" CK-A
Circular Knitting Machine

The "Reading" CK-A Circular Knitting Machine • The "Reading" Tricot Machine • The "Reading" Full-Fashioned Knitting Machine
The "Reading" Full-Fashioned Outerwear Machine • The "Reading" Braiding Machine • Textile Spring-Beard Needles • Arrow Latch Needles

guides at the top of the yarn carrier. Use furnishing wheels where feasible.

Stitch Formation. The following stitches are compatible with flat Lurex yarns:

Lay-in and float—Raschel nets and laces and circular knitted latch needle goods are effectively decorated in this manner.

Knit-in and float—This may be accomplished by raising only a portion of the needles, such as one in three or one in four, to knit position at spaced feeders. This incorporates the Lurex into the fabric more securely than in lay-in knitting. By knitting the Lurex at one feed in every four, five, or six the Lurex loop is never knitted into itself but into a loop of the other yarn; however, the Lurex is thrown on edge more than by knitting-in and floating.

Jersey stitch and its variations—Lurex is suited for tricot jersey in either a striping usage or all-over effects (top bar, Lurex; back bar, filament synthetic).

Plating—Fine-width yarns are compatible as backing yarns when plating filament synthetics; wide width yarns when plating spun yarns.

Needle wrap principle—Finer yarns are compatible with hosiery knitting wrapping to form clocks, diamonds, stripes, etc.

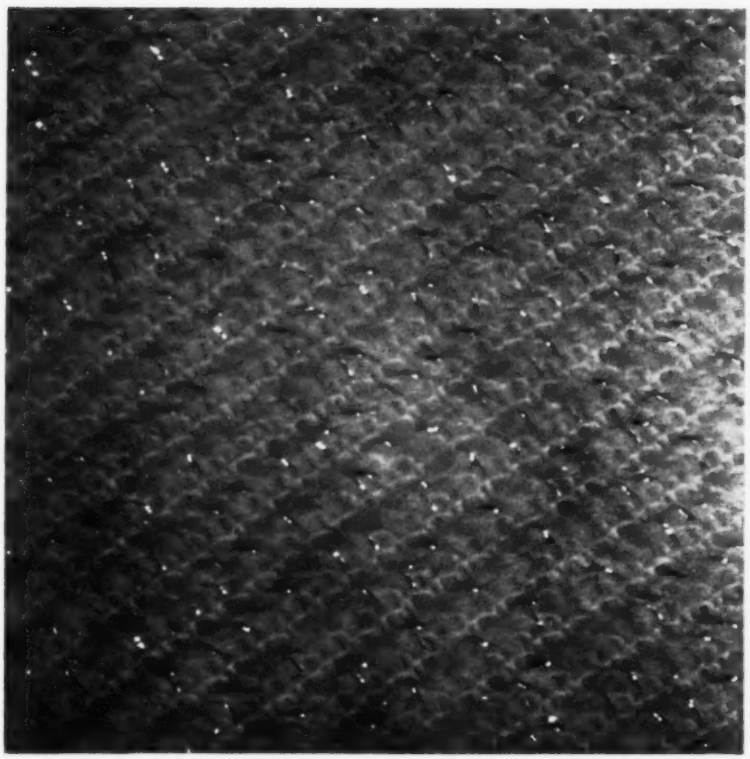
It may be necessary to draw a longer stitch to overcome the tendency to overstretch or break, where Lurex is deflected from one plane (as in rib knitting); or to draw a shorter stitch to overcome the tendency to overstretch or break where the Lurex knits in one plane (as in jersey knitting).

For the most part, Lurex can be knitted at normal machine speeds. With any machine, abrupt start-ups are to be avoided; they can overstretch or break the yarn. It is best to start with the hand wheel, applying power slowly.

Circular Hosiery Knitting. Two peculiarities of these machines may dictate check points for the Lurex:

1. The feeding velocities of the machines are quite high. Care must be taken to select a precise unrolling device for spooled Lurex, and antiballooning set-ups for coned Lurex are usually appropriate.

2. Where the machine is equipped with end-clippers, the smooth-surfaced unsupported yarns may tend to slip out. This may be prevented by installation of a card clothing pad.



Jersey made with 1/100" #150 Lurex MM on an 18-cut Brinton jersey machine with 20s/1 cotton. Lurex is knitted on one needle in four. Machine has 36-gauge needles; runs at 30 rpm.

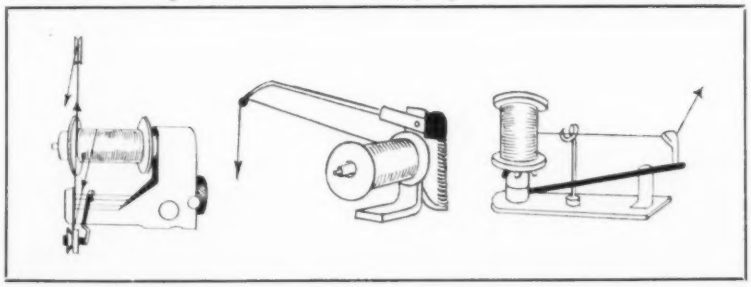
Large-Diameter Circular Knitting. The common range of equipment with 10 to 18 needles per inch will take 1/64" to 1/128" Lurex widths when the Lurex is to be knitted in; finer work generally calls for some sort of floating stitch for the Lurex in conjunction with fine companion yarns. With coarse work, such as 5- to 8-cut rib machines, bulkier round-shaped Lurex combinations are required.

The following are some check points:

Where flat yarns are used, a somewhat loose stitch will provide optimum coverage; coverage is also enhanced by use of a tuck stitch so that the Lurex ribbon is contrasted against a companion yarn in the same stitch. Length of stitch also has a bearing on knittability; with fine work (e.g., 28-gauge spring needle machine), a reasonably long stitch must be drawn.

When knitting Lurex in on jer-

Devices for unrolling Lurex, l-r: Lawson device, spring arm tension control, vertical unit.



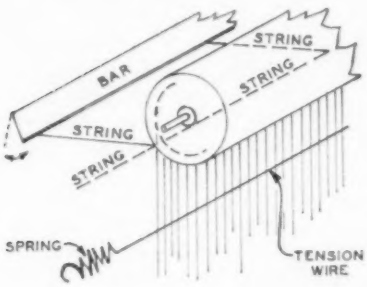
sey machines, if the Lurex is flat in shape, buckling may occur in the fabric; this may be due to the sensitivity of the Lurex ribbon to slight variations in the speed at which the yarn is fed to the needles. If this occurs, equally decorative effects may be obtained by knitting the Lurex on alternate needles.

Flat Lurex yarns may be more easily knitted on needles which have slightly larger hooks than is standard for a given machine cut. This is particularly true in medium to fine rib machines.

Warp Knitting. Generally, no alterations in setting are required when knitting Lurex MM on tricot or raschel machines. However, the following recommendations will contribute to maximum machine efficiency and cloth quality:

1. A key to good knitting is the quality of the Lurex warp: A well made warp will knit well.

2. Efficient unrolling of the Lurex beam is possible through installation of a tension string:



3. When Lurex is traversing on a fine filament ground (e. g., 1/100" #150 Lurex MM on a ground of 15-denier nylon) the filament ground should be knitted slack. This will provide a knitted loop size large enough to allow the Lurex to be drawn through the preceding filament yarn loops without imposing too much strain on the filament yarn and causing cut-outs.

4. Finer counts of rayon yarns (e. g., 55 denier) may be cut by the adjacent Lurex. If this occurs, place an end of a stronger yarn (e. g., 45 denier nylon) on each side of the Lurex. If the pattern calls for a great deal of traversing to the right and left, the number of reinforcing threads used on each side of the Lurex may have to be increased to two.

5. Machine speeds will vary with the amount of Lurex used and the pattern: Generally a significant amount of Lurex present in warp knitted goods will call for a speed reduction. A good general guide to finding the best speed to run includes starting the machine up at about one-half maximum speed and building up to the top speed at which no objectionable yarn breakage occurs.

Flat Bed Knitting. The following recommendations apply to latch needle machines:

1. When a flat (unsupported) Lurex yarn is fed into this class of machine from spools, the tendency is for the quick reversal of direction of the yarn carrier to shear off the Lurex ribbon. This may be overcome by use of a precise unrolling device such as the "Lawson."

2. Generally, this type of machine is made in relatively coarse gauges in the range of 2½ to 10 gauge. The flat Lurex yarns in themselves are too fine and not lofty enough to show up their maximum effect. This may be overcome in three ways: a) by using a supported Lurex yarn of the core type with Lurex wrapped around a lofty knitting yarn such as would be used for non-Lurex flat fabrics; the "faceted" Lurex combinations are also applicable to this work, b) by feeding flat Lurex yarns from spools and joining them in the same feed with "filler" yarns, c) by feeding flat Lurex yarns from spools and joining them with filler yarns before they reach the feed. By feeding the Lurex through the center of the cone so that the unwinding filler yarn twists slightly with the Lurex, it is possible to maintain better control on the Lurex than in method b.

These recommendations apply to spring needle machines (F-F):

1. For the medium- to coarse-work machines used to produce ladies' outerwear, the same generalizations hold true as noted for latch needle work.

2. For fine work (ladies' F-F hosiery), fine, unsupported Lurex MM will knit with no unusual adjustments; however, tensions are quite important: Good results may be obtained by feeding directly into the tube, bypassing all tensioning devices.

3. In fine work, it is also important to consider the true elasticity requirements of the fabric. If Lurex is being used in a portion of an F-F stocking where elasticity is a functional requirement, it is best to alternate it with a more elastic yarn rather than knit many successive courses of Lurex: Lurex is extensible, but not elastic.

Dyeing and finishing *(from page 176)*

crabbing through scouring and rinsing, have been grouped within easy trucking distance.

Dyeing machines have been arranged in the shape of a "T," with ample space, as the photograph on page 175 shows, for trucking and other essential activities. And not far away are the drying and finishing operations.

Plant Modernization Continual. The need for new equipment in a plant of such diversity as Dominion Dyeing & Printing is forever present. The purchase of new equipment, however, although justified by a present need, is attendant with some risk, for there is possibility that it can remain idle after a particular fabric or finish has run its course in a market that is almost certain to change.

But the experience at Dominion, according to its president, E. G. Montgomery, indicates that a machine does not remain idle very long. For one thing, it is purchased with the plant's unusual requirements in mind, which call for some flexibility. And besides, new fabrics and fabric blends are steadily forthcoming, not to mention developments in technology, which assure an adequate return on a machine's investment.

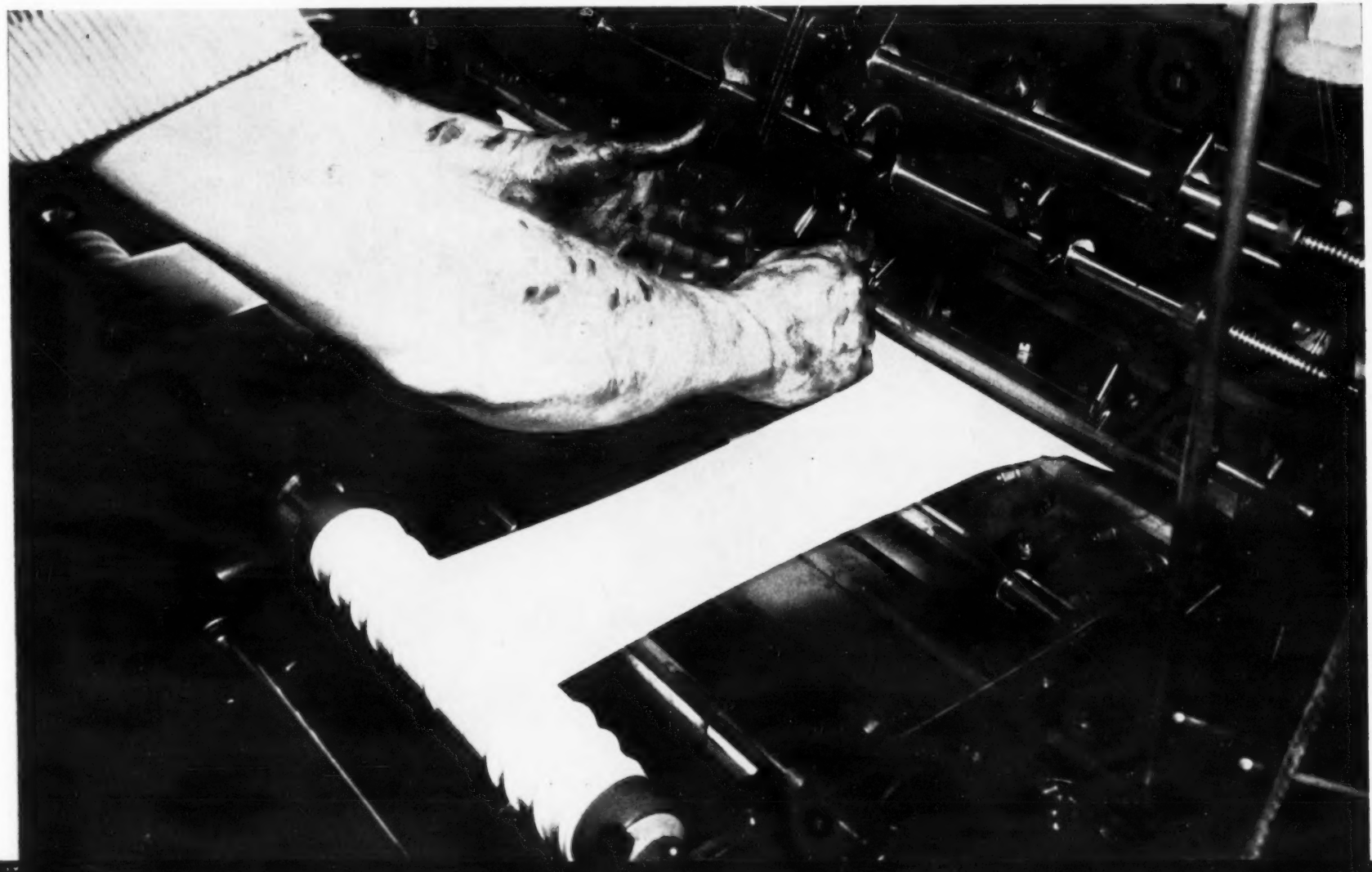
Textile Industries *presents*

KNITTER HINTS

NO. 50

Keep greasy hands off clean work!

This makes costly seconds



HYSORB®

TRADE MARK REGISTERED ... 1954

Now, for sheer comfort, man-made fibers can vie with the natural in almost every phase of apparel use! HYSORB, applied to synthetic fabrics (or blends), creates a *thirst for moisture*. Fabrics can now *"breathe"*. Body moisture *evaporates*. Perspiration *is absorbed!* In addition, HYSORB assures a superior "hand" that will not harshen even after repeated washings.

Truly, here is a finish—developed specifically for fabrics of the man-made fibers—that promises to open wonderful new sales and merchandising vistas for *all apparel worn against or adjacent to the skin!* HYSORB brings to synthetic fabrics a new concept—*a new dimension*—in wearability and comfort!

HYSORB is now being slowly released to manufacturers, converters and finishing plants in specific fields of use, on a careful licensing plan that assures maximum protection of finish quality as well as trade marked name. *No costs or royalties are involved in the licensed use of name or product.*

Scholler Brothers, Inc., is happy to aid you in determining the effect of HYSORB on *your* fabric. Write . . . *TODAY* . . . for complete information about this revolutionary finish applied to the expanding field of synthetic fabrics!

SCHOLLER BROTHERS, INC.

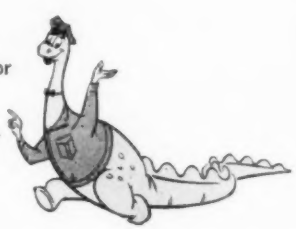
PIONEERS IN THE BETTER FINISHES THAT MAKE THE BETTER FABRICS ... SINCE 1907

Collins & Westmoreland Sts., Philadelphia 34, Pa. IN CANADA: Scholler Bros., Ltd., St. Catharines, Ontario.

Needles... Knitting... and How to Save Money

Rust and crust on knitting needles are costly problems. But you can eliminate deposits and reduce production costs with Sinclair Crystoil. This superior needle oil has earned a reputation for outstanding performance. And, you'll like its very light color, too. Result—more first-quality products—a more profitable operation. Switch to Crystoil, now. Next time management asks how you've cut costs, tell them you've changed to Sinclair—and show them the results.

Find out more about CRYSTOIL. Call your nearest Sinclair Representative or write Sinclair Refining Company, Technical Service Division, 600 Fifth Avenue, New York 20, N. Y. There's no obligation.



SINCLAIR
Crystoil Needle Oils

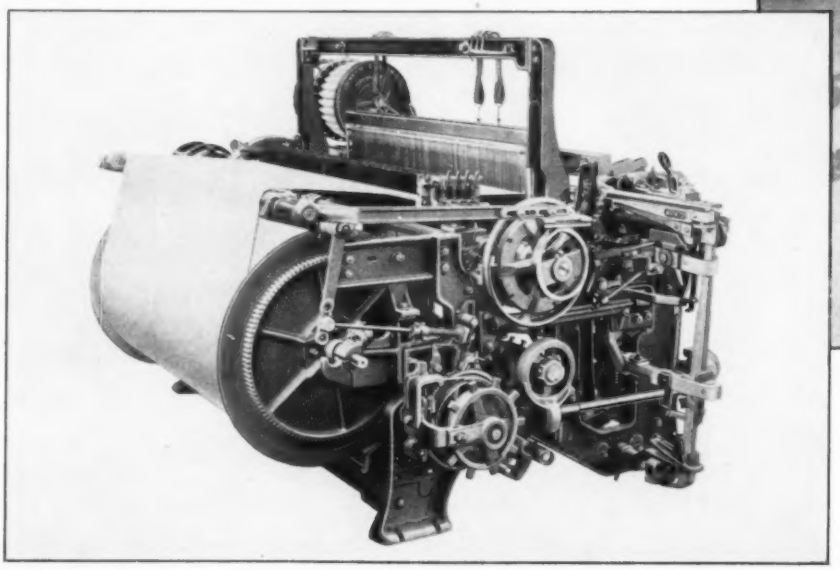
Improvements make them different...

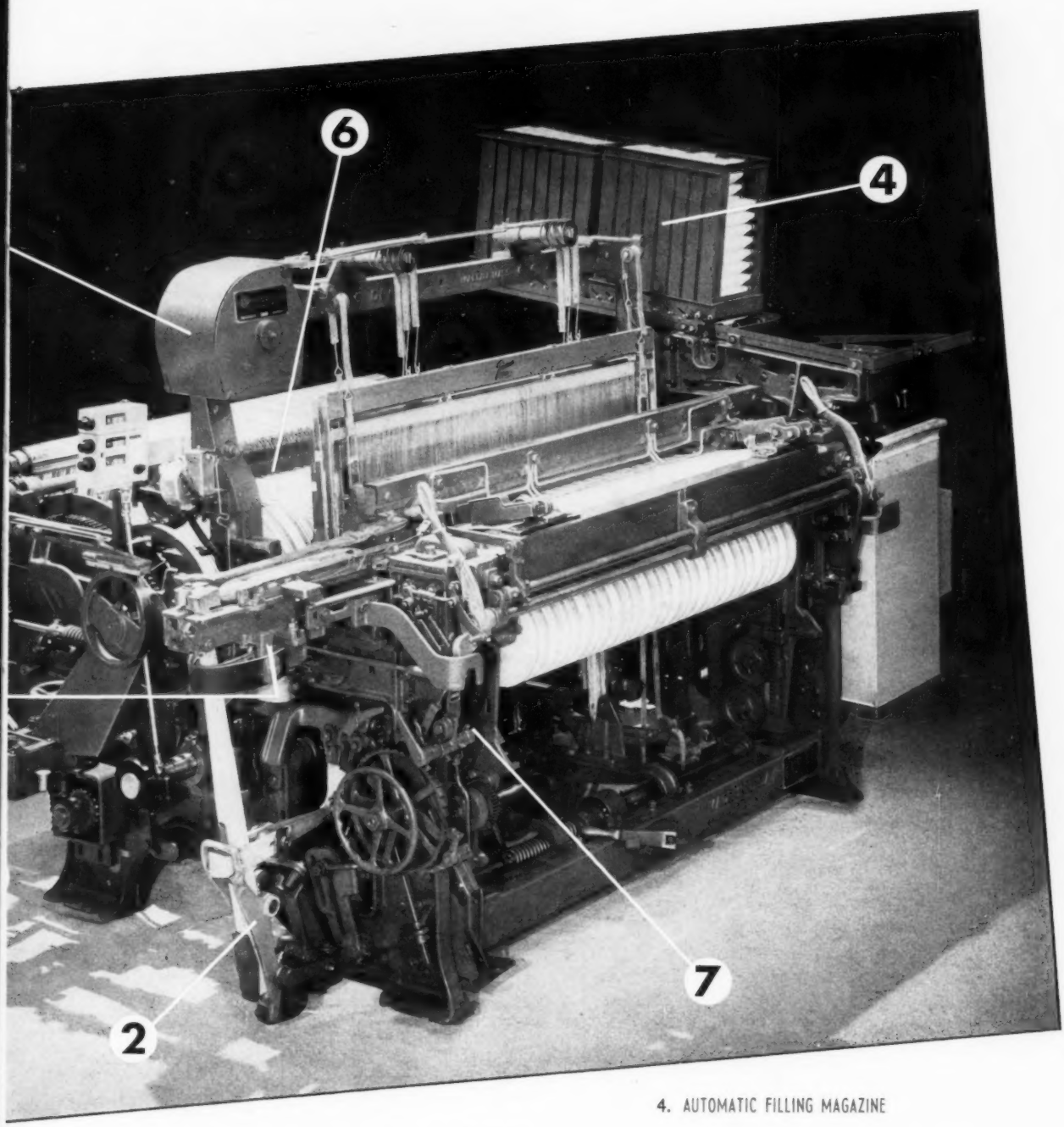
Today's high-speed automatic X-2 Model Loom, with its many technical advances, is a far cry from the X-2 of yesteryear.

Research and Engineering developments, while reducing costs, have brought about "new highs" in loom efficiency and production.

Many of these attachments currently available on new Draper X-2 Looms can be adapted to your looms.

See your Draper Representative for additional information.





1. TRU-TENSION LET-OFF
2. LINK TYPE PARALLEL
3. CLOCK SPRING TOP MOTION
4. AUTOMATIC FILLING MAGAZINE
5. # 14 SHUTTLE CHECK
6. SERRATED WARP STOP ELECTRODE
7. HIGH ROLL TAKE-UP

DRAPER CORPORATION

HOPEDALE, MASS.

ATLANTA, GA. • GREENSBORO, N.C. • SPARTANBURG, S.C.

Introducing...

the ALL-NEW

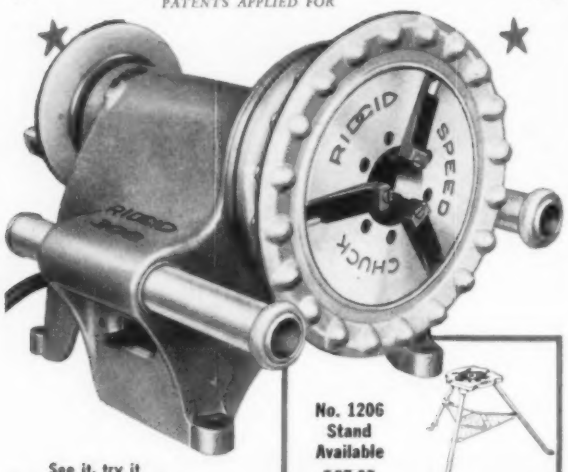
RIDGID 300

Power Drive

$199.50

- Full ⅛" to 2" capacity
- Light-Weight • Heavy-Duty
- Unmatched RIDGID Quality

PATENTS APPLIED FOR



No. 1206 Stand Available $27.00

See it, try it at your Supply House!

Designed and Manufactured by

THE RIDGE TOOL COMPANY

ELYRIA, OHIO, U. S. A.

The Laurel Leaf

BUSINESS MAGAZINE EDITION

NEW LAUREL POLYLUBE FFN . . . LAST WORD IN FINISHING AGENTS

Newest member of Laurel's quality line, POLYLUBE FFN - versatile, easy-handling, stable, and semi-permanent - brings a fresh concept to textile finishing practice. A non-ionically dispersed polyethylene emulsion, it has already earned wide approval in actual field use.

For versatility, POLYLUBE FFN can't be beaten. It's an excellent softener and lubricant for cotton, rayon, and synthetic yarns and fabrics. It makes an effective high-speed sewing thread lubricating agent, too. Applied to piece goods, it imparts a soft, springy hand and notably improves the drape of the fabric, enhancing sewing and cutting properties. And, it **materially increases** both tear strength and crease resistance when applied to resin-treated goods.

Laurel POLYLUBE FFN is stable to acids, alkalies, and salts - even in high concentrations. It forms dispersions almost colloidal in particle size, for uniform application and penetration. It does not contain waxes, oils, or other diluents, and remains stable over long periods.

For semi-permanence and ease of handling, POLYLUBE FFN is excellent, too. It is highly resistant to laundering, and may be prepared in either cold or hot water, and applied in a variety of ways.

For a liberal **free** sample and complete directions for use, write us **today.** We know you'll be delighted with this newest member of the Laurel family of quality textile products.

Laurel Brand

Laurel SOAP MANUFACTURING CO., INC.

TIOGA, THOMPSON & ALMOND STS., PHILA. 34, PA.

Warehouses:

Paterson, N. J., Chattanooga, Tenn., Charlotte, N. C., Greenville, S. C.

WARNER & SWASEY
PIN DRAFTER®
INTERSECTING DRAW FRAME
SINGLE HEAD—DOUBLE HEAD

- Single Head—single or dual can delivery.
- Double Head—dual or quad can delivery, or balling head.
- Better balanced, 50% greater production.
- Speed increased to 1,500 drops per minute.
- Produces more evenly blended sliver up to 12 ounces.
- Handles wool, synthetics or blends.
- Applicable to French, Bradford, American or Jute Systems and dye house operations.

"Without these new Pin Drafters, Lehigh Spinning couldn't produce nylon carpet yarns"...

says W. R. Guthrie, President, Lehigh Spinning Company

"In order to process 15 denier, high-crimp Nylon carpet yarns you need rugged, dependable machines in the Drawing Room. After careful analysis of all available drawing equipment, we modified our Jute System by installing a battery of five Pin Drafters.

"These machines operate around-the-clock, setting impressive production records under extreme conditions. We now know they will enable us to meet our customers' demands and provide them with the finest quality carpet yarns available.

"We have been so satisfied with our Warner & Swasey Pin Drafters, we have installed five additional machines and probably will install more in the near future."

® Reg. U. S. Pat. Off.

SALES OFFICES

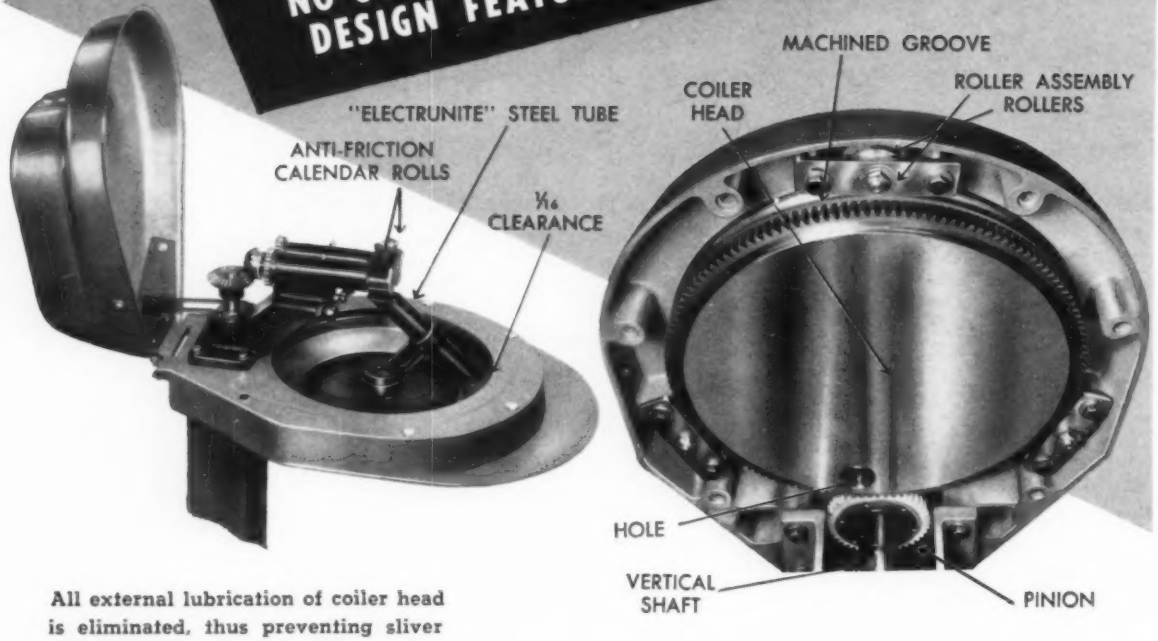
Main Office and Factory: 5701 Carnegie Ave., Cleveland 3, Ohio
20 Chestnut Street, P. O. Box 215, Needham 92, Mass.
121 11th Street, N. E., Atlanta 3, Ga. • 624 Pecan Avenue, Charlotte 1, N. C.
Suburban Square Bldg., Ardmore (Philadelphia), Pa.

WARNER & SWASEY
Cleveland
PRECISION MACHINERY SINCE 1880
TEXTILE MACHINERY DIVISION

YOU CAN PRODUCE IT BETTER, FASTER, FOR LESS . . . WITH A WARNER & SWASEY

NEW SACO-LOWELL ANTI-FRICTION COILER HEAD

REQUIRES MINIMUM MAINTENANCE AND LUBRICATION— NO OTHER COILER OFFERS THESE ADVANCED DESIGN FEATURES



All external lubrication of coiler head is eliminated, thus preventing sliver soilage by oil or grease. The coiler gear is supported by three non-metallic tires, mounted on roller assemblies, which contain anti-friction bearings, grease packed for life. Non-metallic tires support the coiler gear which is driven by a nylon pinion requiring no gear tooth lubrication.

Note that the tube does not touch the inside of the coiler gear. This intentional clearance of 1/16" prevents snagging of fibers or "tagging" experienced with most other makes of coilers. The inside surface of the tube, made from special "Electrunite" steel, is smooth as glass and free from all scratches and defects that snag fibers. A well-rounded and polished hole through the coiler gear is directly opposite the bottom end of the tube.

SACO-LOWELL® SHOPS

60 BATTERYMARCH STREET, BOSTON 10, MASS.

Shops at BIDDEFORD & SACO, MAINE; SANFORD, N.C.; EASLEY, S.C. Sales Offices: CHARLOTTE · GREENSBORO · GREENVILLE · ATLANTA

HOW OTHER MEN MANAGE

• Letters to Editor • Technical Discussion •
• Manufacturing Briefs • Kinks & Short Cuts • Comments from Readers •

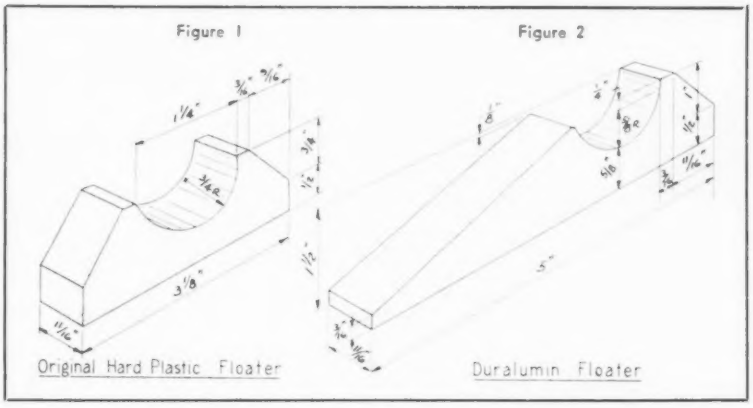
Alloy loom part permits substantial yearly saving

THE EDITORS:

On W-3AC looms we used a floater between the picker stick and the picker to prevent fast wear on the picker and stick—mostly on the stick. The original floaters (Fig. 1) were small and made of a hard plastic which broke easily. We were using approximately two floaters per loom per week, and at the same time ruining many picker sticks.

This occurred as the broken floater, which often went unnoticed for awhile, damaged the picker stick until that item had to be replaced. Once damaged, the stick would break the new floater within a few minutes. Thus we replaced both at once.

We solved that problem by making the floaters longer and of Duralumin (See Fig. 2). The new floaters last indefinitely—we have some in use which have been running for more than a year. And they cost us only $1.20 each!



You can imagine the savings. The following figures are given

WIN $100 • ENTER THIS NEW KINK CONTEST • WIN $100

Every kink, short-cut, time-saver, or quality improvement suggestion entered in the contest will be paid for immediately upon acceptance, and the $100 award will be made to the winner as soon as all entries are judged.

The contest rules are simple:

► All contributions must be postmarked not later than midnight, December 15, 1958.

► No limit to the number of entries an individual may submit in any one contest.

► All entries paid for upon acceptance — no waiting. Extra payment for photographs that are usable. Extra consideration is also given kinks accompanied by legible pencil sketches or drawings.

► Entries must not have been published previously and must not be submitted to any other publication.

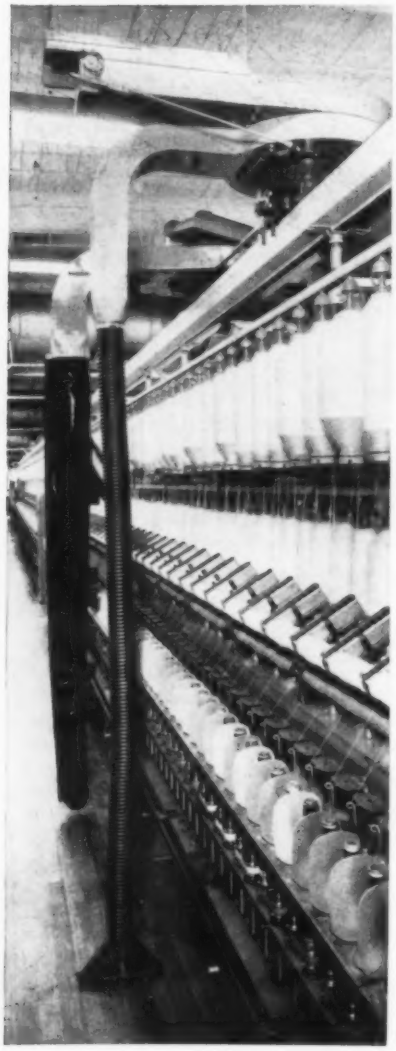
Send your contest entry to: The Editors, TEXTILE INDUSTRIES, 806 Peachtree St., N. E., Atlanta 8, Georgia.

Contest closes December 15, 1958. Don't wait. Send your entry now!

Picks lint up and takes it away!

See the Traveling Vacuum Cleaner at the Southern Textile Exposition, Greenville, S. C., October 6-10, 1958, Booth 502

TRAVELING VACUUM CLEANER



Travels with Frame Cleaner introducing floor level suction adjacent to underframe flexible sleeves.

Frame Cleaner puts lint into spinner's alley. Vacuum Cleaner removes it.

Once a trip, collected lint discharged into vacuum receptacle . . .

The most important step forward in the cleaning art since the introduction of extended flexible sleeves.

Parks-Cramer Company

FITCHBURG, MASS. CHARLOTTE, N. C. ATLANTA, GA.

411

Eastman's new polyester

KODEL®

THE CHAMPION OF ALL STAY-FRESH FIBERS

for all three systems...cotton, woolen and worsted. Kodel can give new drive to the apparel industry. Steps up wrinkle resistance, cuts down pilling, makes possible a radically new group of stay-fresh and wash-and-wear constructions

In the past few years more new fibers have been introduced than you can shake a shuttle at. So what makes Kodel worth all the fanfare? Everything that years of research and development, testing and retesting, could pack into a polyester fiber.

RESILIENCE? Kodel is the new stay-fresh champion. The laboratory men say it's the most resilient polyester fiber yet. You'll say it makes garments that stay neat *longer* and hold a press *better* than anything else before.

PILLING? Kodel lets you go into a whole new range of constructions where pilling had you licked before. Winter-weight flannels, for example.

COVERING POWER? Kodel goes further than any polyester yet. Now cotton-blend shirtings can be cooler and more comfortable...with wash-and-wearability that won't wash out.

PROCESSING? No headaches here. Kodel blends beautifully with other fibers...runs easily on all systems...dyes without difficulty in a huge range of shades.

EASE OF CARE? Tops...whether your hang tag reads "wash-and-wear" or "easy care." Besides, Kodel is less heat-sensitive than most other fibers in the wash-and-wear field so there's more freedom on "touch-up" ironing.

APPEARANCE AND COMFORT? Just great! Consumers who have wear-tested suits with Kodel have commented on their richer-looking appearance. And with Kodel, fabrics have a softer, more inviting hand.

Unfortunately, quantities of Kodel are limited right now.

First to introduce the new fiber are the mills and converters who have helped us develop Kodel. Plus the cutters who have proved what it can do (they'll have it in their *Spring* line). You'll be hearing more about Kodel...soon!

Kodel is the registered trademark for Eastman polyester fiber

EASTMAN CHEMICAL PRODUCTS, INC., SUBSIDIARY OF EASTMAN KODAK COMPANY, 260 MADISON AVENUE, NEW YORK 16, N. Y.

For every production run . . .

keep your weaving schedules on time

with Clinton Products

For every warp-sizing job, you can rely on Clinton corn starches. These products yield sizes with uniform viscosity that produce the same results every time, because:

CONSISTENT FORMULATION MAKES CLINTON PRODUCTS RELIABLE

Three analytical control laboratories and several single-purpose testing stations are located at strategic points in our plant. They check every stage in the processing of *all* products . . . they check *all* finished products to be sure specifications are met exactly. That's why you can depend on Clinton products to do the job for which they are needed.

Your Clinton salesman can help you select the right starches to produce the sizings you want. And, should you need special production advice, *prompt* technical service is available when you need it. Call your Clinton salesman today, or write:

CLINTON CORN PROCESSING COMPANY
CLINTON, IOWA

CLINTON

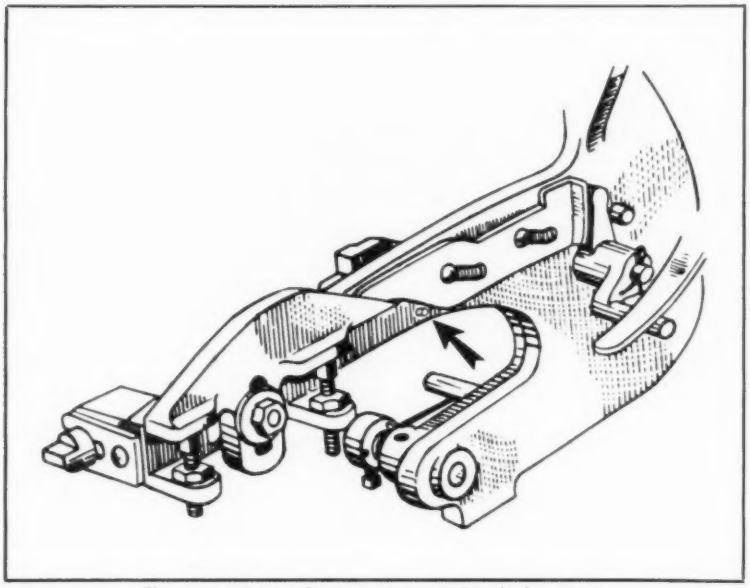
. . . Where research today improves tomorrow's product

to illustrate this point, and *they do not include the cost of the picker sticks we formerly broke.* An average of two broken floaters per loom per week ($0.60 x 2) amounts to $1.20. When multiplied by 50 weeks and expanded to cover 60 looms ($1.20 x 50 x 60) this figure grows to $3600.00, the approximate yearly cost.

On the contrary, the new floaters, based on an average wear life of one year, cost only $2.40 per loom for the same 50-week period. Expanded to cover 60 looms ($2.40 x 60) this figure amounts to only $144.00. The difference between the former and the present floater cost is $3600.00 - $144.00 or $3456 yearly!

CONTRIBUTOR No. 1066
(Canada)

Extra pin helps W-3 shipper motion



The arrow points to the extra pin inserted in the loom part.

THE EDITORS:

Some of my W-3 looms would snatch the shipper handle from my hand as I pulled that member to the starting position. I checked those looms to make sure that they were set correctly, but the trouble continued. A more thorough check showed that the pins holding the shields were loose, some of them badly worn, and not holding the shield firmly in place.

After replacing the worn pins we went a step further and drilled the shields to receive an additional pin. It is shouldered and holds the shield in place as the loom is pulled on. Furthermore it allows the shield to slip back out of the way when the machine is running and to slide back when the loom stops. This pin not only eliminated the difficulty, it takes some of the wear off the shield pins as well.

CONTRIBUTOR No. 1062

Ready for emergencies? Score yourself

THE EDITORS:

Most textile supervisors are better prepared to cope with emergencies on the job than they are in their own homes. Even so, improvements may be called for in preparation for unexpected emergencies in the mill. Just how emergency-ready are you in your own area? To find out review and answer "Yes" or "No" to the questions in the next column.

	"Yes"	"No"
1. Do employees know whom to contact or call if an accident occurs?	____	____
2. Are two or more people in my section trained to give emergency first aid?	____	____
3. Have all employees been instructed as to what they should do in case of a serious accident?	____	____
4. Do I know what steps and precautions should be taken in case of power failure?	____	____
5. Do I have a plan of evacuation and do employees understand what to do in case of fire?	____	____
6. Do employees know how to operate fire extinguishing equipment?	____	____
7. Is there a plan for meeting a civil defense emergency?	____	____
8. Have I designated someone to take charge if an emergency occurs during my absence?	____	____
9. Are emergency telephone numbers (fire department, doctor, or hospital, ambulance, police, etc.) readily available?	____	____
10. Do I periodically inspect emergency equipment to see that it is in working order?	____	____

If you answered "Yes" to all ten questions you have done an excellent job of preparation. Each "No" answer may suggest procedures or facilities needing attention.

CONTRIBUTOR No. 1065

You are cordially invited

to visit us at the

SOUTHERN TEXTILE EXPOSITION

Greenville, S. C.

October 6 to 10, 1958

Booths 122 and 123

Stop at our exhibit while at the Show and learn the fine "points" of Ashworth Card Clothing.

If you have any problems in carding wool, cotton or man made fibers, we will gladly discuss them with you and show you the latest types of card clothing (flexible and metallic) now in use.

Pay us a visit, whether for information or relaxation. We'll be glad to see you.

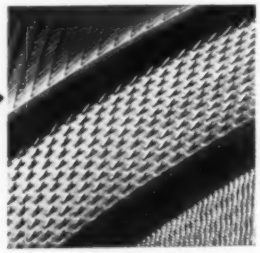
ASHWORTH BROS., INC.

American Card Clothing Co. (Woolen Division)
Fall River* † ‡ Philadelphia* † ‡ Greenville* † ‡
Charlotte † ‡ Atlanta † ‡ Dallas † ‡ (Textile Supply Co.)
Los Angeles, Calif. (E. G. Paules & Co.) ‡
Ashworth Card Clothing Co., Ltd., Granby, Quebec, Canada
* *Factory* † *Repair Shop* ‡ *Sales Office*

PRODUCTS AND SERVICES

Clothing for cotton, wool, worsted, synthetic, silk, rayon and asbestos cards and for all types of napping machinery. Breaker clothing and card clothing for special purposes, including hardened point, plough ground and side ground card clothing. Lickerin wire and garnet wire. Metallic wire for cotton, wool, worsted and synthetic cards. Flexible bend grinding. Remilling of flats. Reclothed flats. Reclothed lickerins.

Ashworth



PIONEERS IN CARD CLOTHING

3 FACTORIES **6 REPAIR SHOPS** **7 SALES OFFICES**

Cloth stored in sliver cans reduces handling costs

THE EDITORS:

Packing and storing our finished cloth presented a serious problem. We were wrapping each piece of cloth following weighing and final inspection, tagging the piece for identification, and storing the wrapped packages on pallets or flats often piled within two feet of the ceiling. We stored the cloth between posts on which we had painted the number location. The invoice and other related papers on "Billed and Held Shipments" (which constituted much of the packaged goods stored) carried the warehouse location information.

When we received shipping instructions we first had to locate the goods by checking the section location and then searching for the individual packages. Once we located them we had to remove the wrapped cloth from sections.

The weight of the great mass of cloth so compressed the bottom layers that two men were needed to extricate a single roll. Even then the wrapping often was torn away so badly that they had to be rewrapped before we could ship them. The wrappings on the packages adjacent to the ones removed fared little better—they too were almost denuded. At best the system was very costly.

To overcome this problem we made "honeycombs" from discarded sliver cans. We removed the end of one can and securely taped it to the top of another can to form a tube twice the length of a single can. We laid the cans horizontally and bolted their walls together to form a solid bank of the tubes. We then separated the original between-the-post areas into four zones by framing them with 2" x 4" timbers (see picture).

(A second picture is included of a similar system that is commercially available. The cells in this instance are not made of sliver cans but are fashioned from fiber storage tubes available in diameters from 8" to 36". We learned of it through an article written by George Bevans, head of the industrial engineering staff of Systems Council, 12 East 41st St., New York 17, N. Y.—The Editors)

This prevented undue weight from being placed on any one group of sliver cans in each section between the posts or columns. The cans are stacked to a height that permits one man to insert and remove the cloth with ease.

The use of these surplus sliver cans for materials handling is resulting in a 50 per cent savings in time and material wrapping service. They also serve to improve the general appearance of the warehouse, presenting an orderly arrangement as compared to the former method of piling the goods according to customer lots and regardless of width. The double can lengths accommodate our widest styles.

CONTRIBUTOR NO. 1067

TOP PHOTO shows storage rack made of discarded sliver cans. BOTTOM PHOTO displays the commercial cylinders used for cloth storage.

Victor Mill Starch

A KEESTAR PRODUCT

IF HE'S A KEEVER MAN HE'S THE WEAVER'S FRIEND

preferred for 60 years
because it's backed
by Keever Service

Charles C. Switzer, Vice President
TEXTILE SALES DIVISION
118 SOUTH PLEASANTBURG DRIVE
GREENVILLE, SOUTH CAROLINA

THE KEEVER STARCH COMPANY • GENERAL OFFICES • COLUMBUS 15, OHIO

Processors of corn, wheat and blended starches for industry since 1898

"Roll your own" paper filters protect dye packages

THE EDITORS:

Packages of yarn for dyeing—whether in the form of cones or cheeses—are themselves extremely fine filters, and therefore any insoluble matter in the dyebath tends to collect on the surface of the yarn. This deposit is particularly noticeable on the inside surface of the package as the liquor is flowing through a much smaller surface area than on the outside.

For this reason some operatives start the scouring or dyeing operation with the liquor flow from outside to inside so that the insoluble matter is deposited over the largest area and consequently is less likely to be detected.

The resultant shade is, however, often slightly muddied or dulled, and for this reason filter sleeves are often used. These consist of preformed paper cones or tubes which are slipped over the metal cone or spring before the yarn is wound on. The paper used is of the high wet strength type which does not disintegrate when submitted to prolonged wetting at high temperatures in either acid or alkaline liquors.

When these sleeves are used, the correct way to start the liquor flow is of course from the inside to the outside so that any solid matter is filtered out on the paper which has even smaller pores than the yarn package.

The only drawback to the widespread use of the sleeves is their cost, particularly when the cones or springs used are of a non-standard size. Some dyers may only require them for special shades, and the price for small lots can be relatively high.

A cheap and very convenient solution is to make one's own sleeves by buying a reel of high wet strength paper. This is marketed under a variety of names and is made from longer fibers than writing or wrapping papers and is reinforced with resins of the melamine type.

If the cones or cheese springs are six inches in length the reel of paper should be purchased in this width and a metal template made to enable the correct shapes to be quickly cut from it.

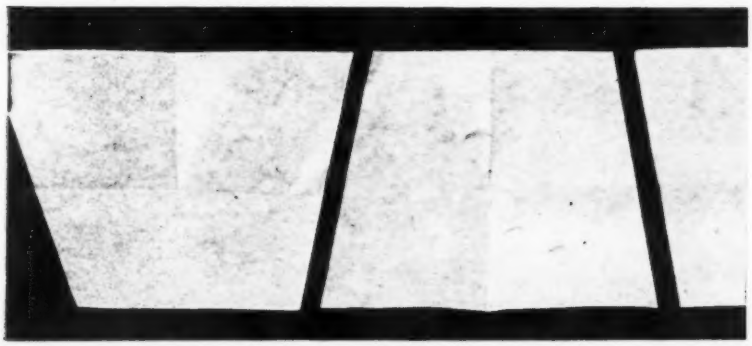
The cones require a trapezoidal shape; cheeses a rectangular one with approximately ¼" being allowed for overlapping. The preparation of trapezoidal pieces is simplified by cutting them in a "head-to-tail" fashion.

The trapezoidal shape of paper wrapped around the cone is quite satisfactory providing that it covers all the holes in the stainless steel perforated cone. A curved template to permit the paper to be cut to conform exactly to the shape of the cones would be expensive and would result in considerable wastage of paper. I find that it is very easy to cut the trapezoidal shapes by using a hand or power operated guillotine—it is possible to purchase ready cut shapes from the paper makers. The paper used is of a high wet strength quality used in this country for the manufacture of tea bags.

When the correct number have been prepared it is a simple operation to stick them to the cones by brushing a ½" strip of water soluble adhesive on the metal and then wrapping the paper around. The adhesive washes out during the dyeing operation, but because the paper is firmly fixed to the metal the start of the winding operation is greatly helped. These "stick on" sleeves appear to be significantly more helpful in winding than the "slip on" type of ready made ones and are less than half as costly.

As a result it is often economically possible to use them to improve the quality of work which is being carried out on very tight margins. The beneficial effect upon brightness of shade and freedom from rubbing of the protected inner layer of yarn is very marked, particularly with vat and azoic colors, and amply justifies the slight trouble and expense.

CONTRIBUTOR No. 1045
(England)



The trapezoidal shapes may be cut from rolls of paper on a hand- or power-operated guillotine. By cutting the shapes in "head-to-tail" fashion no waste is made between pieces.

Have umbrella creels? Paint the bobbin bottom

THE EDITORS:

When a plant is processing more than one kind of cotton, or more than one hank roving, it is necessary to keep the stocks and rovings separated. The common practice for a means of identification is to paint a ring around the bobbin.

When using these bobbins on an umbrella creel, always paint the base of the bobbin instead of the tip. Due to the elevation of the rows of roving in an umbrella creel, the base of the bobbin is always in view; whereas the tip of the bobbin is sometimes obscured from view by the other bobbins. This makes checking for mixed roving much faster.

CONTRIBUTOR No. 1034

SPEAKS

LUREX® FOR ITSELF

with

. . . color excitement

. . . new ideas on surface effects

. . . important technical advances

. . . extensive quality control

. . . dramatic national advertising

. . . a complete merchandising plan

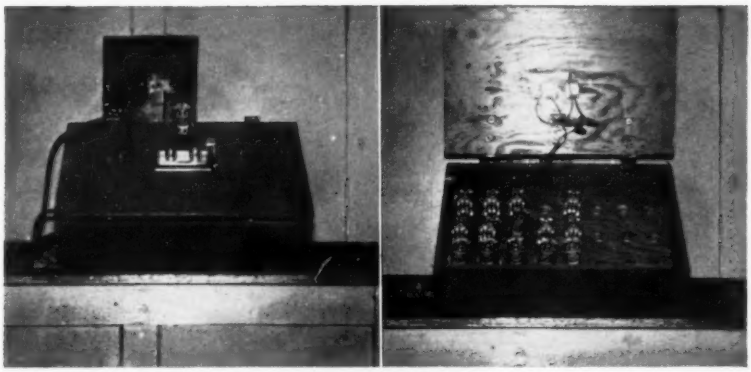
VISIT LUREX AT BOOTH 297 SOUTHERN TEXTILE SHOW

It's all wrapped up in the Lurex "package", the coordinated operation that offers the textile mill and its customers more than ever before. See for yourself.

Lurex, non-tarnishing metallic yarn made only by the Textile Fibers Department of

The Dow Chemical Company • Williamsburg, Virginia • New York: 350 Fifth Avenue

Boston • Charlotte, N. C. • Chicago • Florence, S. C. • Los Angeles • Philadelphia • Manufacturing Affiliates in Canada: William B. Stewart & Sons, Ltd., Toronto and Montreal



The box on which the tester is mounted has a false bottom to provide storage space for relays.

Tester for relays on random slubbing device

THE EDITORS:

A device has been perfected for more efficient control of slubs in "Himalaya" and similar slub effect types of cloth.

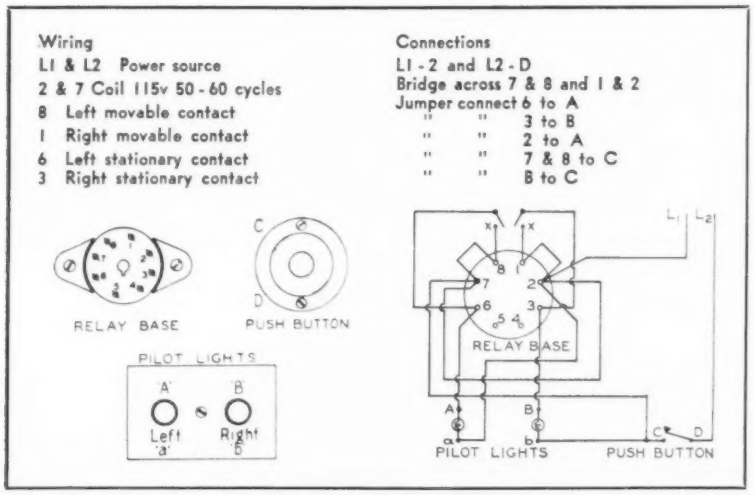
By varying the spinning roll speeds the device makes it possible to prevent undesirable patterning or cycling in the finished cloth. The system is electrical in nature, and is controlled through a relay which sometimes fails. This kink concerns a method of detecting a faulty relay by checking it electrically under conditions identical to those under which it operates.

An index wheel wired in series with a relay supplies current for a negative clutch mechanism, and the machine operates on a 24-hour basis, so any stoppage is serious.

Our preventive maintenance program included general overhaul of relay and visual inspection. This procedure proved costly in terms of production and seconds.

With a visual inspection it was impossible to determine if the relay would operate the clutch, although the contacts would "make and break," since each lead was wired in series.

The accompanying sketch of a relay tester shows how we solved the problem. Now the touch of a button shows us the condition of the relay as it is under actual working conditions. A pilot light represents each lead. When the lights are on, this indicates that current is in supply for the magnetic clutch.



The relay base is similar to radio or electronic tubes, and it is only necessary to push the relay base into its socket to test it. When the push button is pressed to close the circuit, the contacts 8 and 6 and 1 and 3 close. If the contacts are mating properly, the pilot lights burn.

The number one factor, cost, has been minimized in terms of relay replacements. The relays cost about $12.00 each. Previously we replaced about 15 relays weekly at a cost exceeding $180.00. Now we seldom have to replace a relay. Defective relays also caused seconds and lost production.

This relay tester has been installed in several of our plants producing this type of cloth, and results have been gratifying in each instance. All parts, except the push button, are standard components available at any electrical parts supply house, and are easily assembled and installed by plant shop personnel.

CONTRIBUTOR NO. 8943

16-yr card clothing life

THE EDITORS:

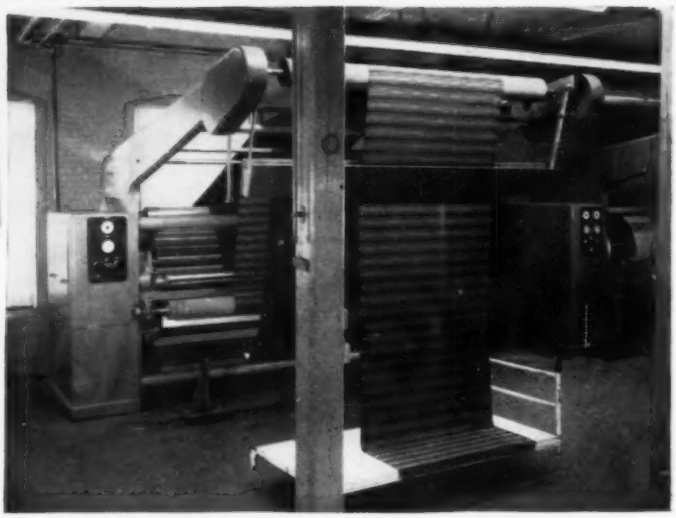
In response to the question by CONTRIBUTOR NO. 1014 in the June issue (p. 169), my experience with card clothing leads me to think average life of clothing operating under the conditions he gave—14.5-oz lap, 55-grain sliver, seven pounds per hour, middling 1 3/32" cotton—should be from 15 to 16 years. The actual life, barring abuse, depends on grinding techniques. If the cards are ground only as much as is needed to keep them sharp, the life will be much longer than if they are ground "so many hours" per cycle. By "so many hours" I refer to the practice some plants employ in grinding some cards for sixteen hours or more because of a reduced grinding force on the second and third shifts.

CONTRIBUTOR NO. 1042

A HI-TORC NAPPER and BLEND-MATIC ROLL GRINDER

—*these <u>two</u> provide maximum napping efficiency.*

See them at Booth 483 Southern Textile Exposition. Greenville, S. C.



30 Roll Double Acting Hi-Torc Napper

Gessner manufactures a Hi-Torc napper for every fabric and every finish. There are five in all — 30 Roll Double Acting Hi-Torc, 24 Roll Double Acting Hi-Torc, 24 Roll Single Acting Hi-Torc, 24 Roll Knit Goods Hi-Torc, Laboratory Napper. Each one embodies Gessner's exclusive, variable, measured and recorded torque drive or napping energy.

Higher cloth speeds are attained, or production increases ranging up to 400%, and with finishes seldom before equalled in variety and quality.

The new Gessner Blend-matic, for the first time, regrinds napper roll wire to the exact specifications demanded by modern high-speed nappers. An internal grinding wheel and a swivelled working head, which follows the spiral wind of the wire, shape each wire to a long, smooth, blended point required for precision napper operation.

Blend-matic Roll Grinder. Inset shows internal grinding wheel.

DAVID GESSNER CO.

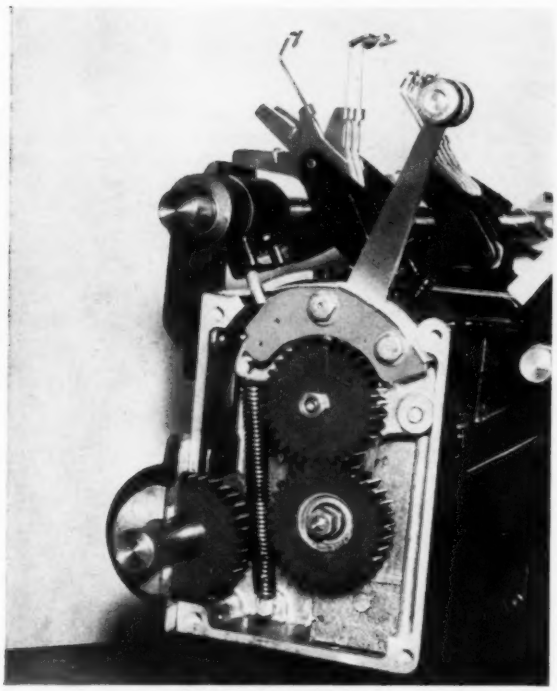
WORCESTER, MASS.

Southern Representative: Richard L. Bernard, 222 Piedmont Bldg., Greenboro, N. C.
Western Representative: E. G. Paules & Co., 1762 West Vernon Ave., Los Angeles, California
Canadian Representative: W. J. Westaway, Montreal, Quebec; Hamilton, Ontario

NEW PRODUCT PARADE

Machines and Equipment . . . Supplies and Services . . . Dyes and Chemicals . . . Books

Please note: Claims made in all of these announcements of new developments are of necessity based upon information furnished by the respective suppliers.—The Editors.



Twister roll stop motion

Twister roll stop motion stops spindle, too

Drop plies, roller laps, and excessive waste are eliminated on frames equipped with a twister stop motion which (optional) also stops the spindle when the roller is taken out of action. Built for installation on all S-L Model 39 twisters of 5½" gauge or wider, the stop motion (called the Twister Stop Motion Feed Unit) changeover is particularly suited to glass yarn twisting operations. The roll feed unit is of the capstan roll type, self-contained, and is mounted directly on the roll beam. The changeover is available in two models: (1) feed roll with feed roll stop motion only; and (2) feed roll with both feed roll and spindle stop motions.

The individual ends are passed through break detectors, and when an end breaks or runs out a trip mechanism is actuated which causes the feed rolls and spindle to stop. The motion is so arranged that if a break occurs in the yarn at any position between the creeled-in bobbin and traveler, the let up in tension will cause the detectors to activate the knock-off motion. An electrical timing device in the motor circuit automatically isolates the tripping mechanism when the machine is stopped or started. This avoids accidental actuation of the mechanism when yarn tensions are relieved. The feed rolls and gears are mounted on sealed antifriction bearings and are enclosed in a lint-proof housing.

Twister spindle stop motion

Saco-Lowell Shops, 60 Batterymarch St., Boston 10, Mass.

Do you want more data? Write ◂ or use card on page 251; list K-101

"Wash-and-wear" verification program offered

Under a testing program now available "wash-and-wear" claims can be proved valid—or invalid. The products so labeled can not only be reliably evaluated as effective or ineffective, but the degrees of effectiveness can be indicated quantitatively for purposes of accurate comparison.

Mills, manufacturers, converters, dyers, and finishers may submit their products for evaluation with the understanding that if the products qualify they will be entered into the testing firm's Verification Program. There is no charge for the initial tests. Eligible products include fabrics, finishes on specific fabrics, garments, and home

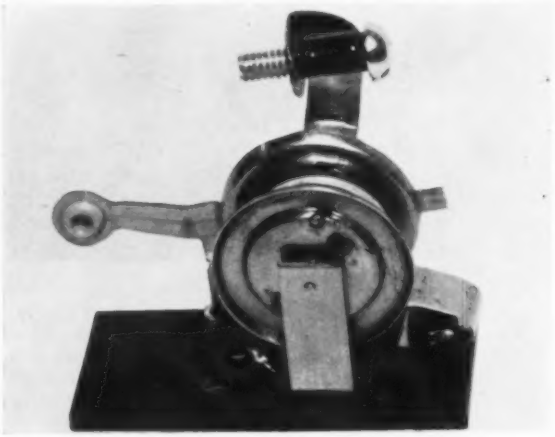
furnishings such as draperies, curtains, and slip covers. Products will be tested regularly after verification, both from samples submitted and from samples bought on the open market by the testing firm. This form of continual control protects the prestige and validity of the Verification Program, the Verification Seal, and the verified products in the program.

United States Testing Co., Inc., 1415 Park Ave., Hoboken, N. J.

Do you want more data? Write ☁ or use card on page 251; list K-102

Stop motion for low-tension applications

The Quix Stop is a small, compact, rotary-type mercury switch with an adjustable balance that increases yarn tension by less than one-tenth of a gram. It is used to detect broken ends on warping, winding, twisting, and



on other low tension textile applications where the weight of the ordinary drop wire is too great to be supported by the low yarn tension required.

Fabrionics, P. O. Box 521, Huntington, L. I., N. Y.

Do you want more data? Write ☁ or use card on page 251; list K-103

Automatic knitter has simple movements

The Electromat V. S. is an automatic knitting machine particularly suited to knitting with or without border, in plain, tubular, or fancy stitch as well as to knitting firm-edged border ribs to be picked to with a slack row. With a needle-bed width of 60", and made in all gauges from 5 to 18 (Dubied gauge 50 to gauge 14), the knitting machine is equipped with a dust-free box for housing all the movable parts. There is no vibration. Produced by Servo-Stop in France, the machine has a production rate of five panels per hour in 12-gauge plain knitting.

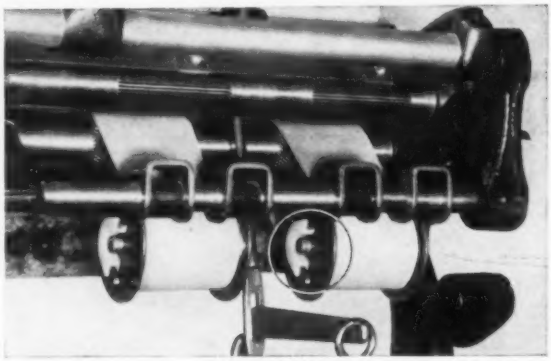
Perforated cards control the movements. For each movement the same hole controls alternately the motion or nonmotion of the same cam.

The control of transmissions is done by electromagnets. Switches are mechanical. Since the electromagnets do not operate the parts controlled by the perforations, they are charged for brief periods only and do not overheat.

Mac M. Rothkopf, Inc., 317 Bushwick Ave., Brooklyn 6, N. Y.

Do you want more data? Write ☁ or use card on page 251; list K-104

Snap-on bearings improve drafting



Nylon bearing inserts for the tension roll supporting arms on roving and spinning frames snap into place over the area that is subject to wear (on the inner bend of the arm) to assure proper tension roll alignment and long life of both the tension rolls and the support arms. The bearings are installed without removing the tension roll support arms from the frames. The contour of the nylon support surfaces that bear against the support arm itself assures its correct placement, exactly locating the proper bearing area regardless of the degree of support arm wear.

Saco-Lowell Shops, 60 Batterymarch St., Boston 10, Mass.

Do you want more data? Write ☁ or use card on page 251; list K-105

New yarns and fibers

The cross-linked, man-made fiber Topel may be used alone or in blends with nylon, cotton, and acetate. Made only in uncrimped form (1½ and three deniers, bright and dull) its relatively low elongation at break and its high resistance to alkalies adapt it particularly for blending with cotton, to which it imparts improved appearance, hand, and drape. It may be dyed with all the normal dyestuffs used for cellulosic fibers, can be resin treated and mercerized, and has an elongation at break intermediate between that of cotton and rayon.

Courtaulds (Alabama), Inc., 600 Fifth Ave., New York 20, N. Y.

Do you want more data? Write supplier or use card on page 251; list K-245

A textile fiber that adds loft, warmth, and kindness of hand when blended with other synthetics and wool is available in bright, dull, regular, and crimped, and in deniers up to and including 15. Called Corval, the cross-linked fiber has properties distinctly different from those of rayon, acetate, or cotton. It may be dyed with all the normal dyestuffs used for cellulosic fibers, can be resin treated and mercerized, and has an elongation at break intermediate between that of cotton and rayon.

Courtaulds (Alabama), Inc., 600 Fifth Ave., New York 20, N. Y.

Do you want more data? Write supplier or use card on page 251; list K-246

The polyester fiber Dacron Type 64 is recommended for use in such fabrics as sharkskin, Bedford Cords, sheen and plain gabardines, and other types characterized by a surface nap. Produced in three-denier-per-filament staple and tow, it has improved pilling resistance and can be dyed with disperse colors and selected cationic colors. The

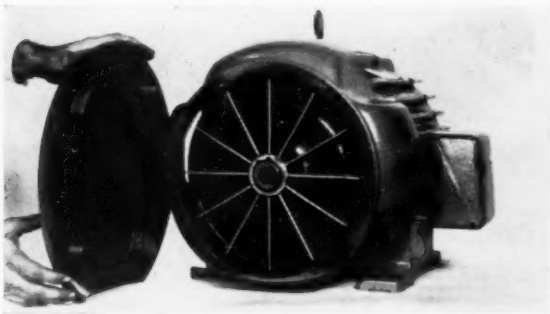
fiber (it does not replace the standard Dacron) is intended for use on worsted and American spinning systems.

E. I. du Pont de Nemours & Co., Inc., Textile Fibers Dept., Wilmington 98, Del.

Do you want more data? Write supplier or use card on page 251; list K-247

Electric motor designed for textile use

Designed for use on spinning frames, roving frames, pickers, opening equipment, and other textile-mill applications, an electric motor in horsepower ratings from 7½ through 25 is designed with an endshield to house the fan and to give maximum lint expulsion. Of the Tri-Clad '55 series, the motor is totally enclosed and is cooled by a shroudless 12-blade fan.



The endshield bosses are made large enough to facilitate expulsion of the longest lint fibers, and the interior of the fan housing is smoothly contoured to prevent adhesion of lint, dust, and dirt. Being totally enclosed, the motor windings remain free of lint at all times and thus eliminate fires from that source.

The bearing system includes long, close-running seals, large grease reservoirs, grease fittings of both endshields to facilitate regreasing, and a newly developed long-life grease. Insulation is designed to help protect against heat aging and full-voltage starting stresses.

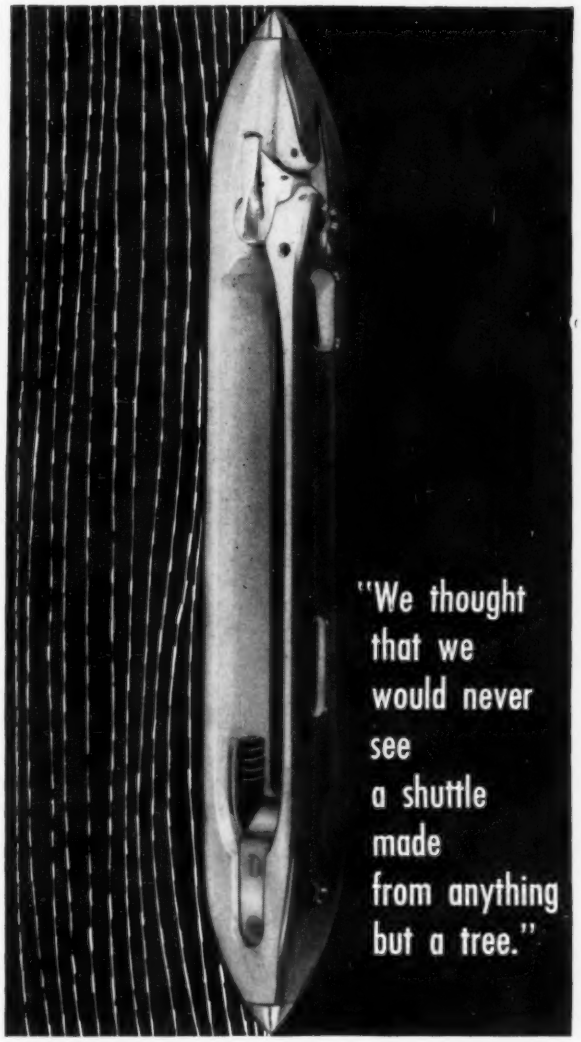
General Electric Co., Schenectady 5, N. Y.

Do you want more data? Write ◀ or use card on page 251; list K-108

Dryer especially suited for knit goods

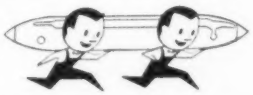
The Fleissner Air Suction Drum Dryer, photo of which is included in the Greenville Show Preview (see pp. 125-150), is used for drying all types of raw stock and loose fibrous material, including top, tow, nonwoven fabrics, and (especially) knitted goods—any fabric not requiring tentering. Knit-goods shrinkage compares favorably with tumbler-type dryers. Made by Fleissner and Son, West Germany, the dryer offers four major advantages: (1) constant outgoing moisture content; (2) extremely short cleaning periods for dryer; (3) outstandingly low steam consumption—1.4 pounds of steam per pound of water removed; and (4) drying periods generally between one and three minutes. The drying rate is equivalent to about three times the quantity of water per square foot removed by comparable systems. This represents considerable savings in floor space and heat loss.

Simple drums are used in lieu of belts, chains, and other movable parts. The basic drying element consists



In fact we will be forever grateful to the dogwood tree for helping us give you the finest shuttles possible for your looms, these many years.

But . . . if you want to see new shuttle wonders performed by the Shuttle People, visit our booth, No. 128 at the Southern Textile Exposition in Greenville, S. C., Oct. 6-10, 1958.



THE SHUTTLE PEOPLE SINCE 1830

Distributors of "Lundstick" Densified Picker Sticks

WATSON-WILLIAMS Mfg. Co.

MILLBURY, MASSACHUSETTS

Southern Representative:
Watson & Desmond, Box 1954, Charlotte, N. C.
Ray A. Norman, P. O. Drawer 779, Greenville, S. C.
Dorsey Lanier, Box 421, Shawmut, Ala.
John Wyatt, P. O. Box 701, Greensboro, N. C.
Ralph Patton, P. O. Box 701, Greensboro, N. C.

Northern Representatives:
Howard S. Pellatt, 4 Branch Avenue, Saylesville, R. I.
Sutton M. Ebert, P. O. Box 7144, Elkins Park, Philadelphia, Pa.

FOR YOUR TEXTILE SUPPLIES — SEE

BOOTH 128

20th SOUTHERN TEXTILE EXPOSITION

Textile Hall — Greenville, S. C.

October 6 - 10, 1958

Our Suppliers are outstanding and their products proven. Our knowledge of Textile Supplies & Equipment is up-to-the-minute.

WATSON-WILLIAMS MFG. CO.	shuttles
PROGRESSIVE ENGINEERING CO.	anti friction top rolls for spinning & roving
TEXTUBE CORPORATION	paper spinning tubes & quills
ZINSER	SKF roller bearing Spindles
EUGEN MAIER	Maier Prima flyers
REINERS & FUERST	spinning & twister rings
VERMONT SPOOL & BOBBIN CO.	wood spools & bobbins and cones
H & P SPOOL BOBBIN CO.	fibre head spools & bobbins
VULCANIZED RUBBER & PLASTIC CO.	plastic quills & bobbins
R. M. TAYLOR CO.	shuttle fur
WALTON LABORATORIES, Inc.	humidifiers
NEW ENGLAND PAPER TUBE CO.	dye tubes & headless shipping packages
G. DIKKERS	Dubo spindle lock washers
ERNEST TOENNIESSEN	yarn inspection machines

USED MACHINERY — MILL PROPERTIES & APPRAISALS

representatives in attendance:

Richard V. McPhail, P. O. Box 1174, UNiversity 5-8631, Gastonia, N. C.

John Wyatt, Ralph Patton, BRoadway 3-3012, Box 701 Greensboro, N. C.

Edgar E. Ball, J. N. Dodgen, J. A. Olwell, EDison 3-6154, Charlotte, N. C.

H. Dorsey Lanier, P. O. Box 421, phone: 3-4041, West Point, Ga.

Ray A. Norman, P. O. Box 779, CEdar 2-1341, Greenville, S. C.

USE R+F **NITRIDED SPINNING and TWISTER RINGS**

REVERSIBLE and NON-REVERSIBLE 8 and 10 mm, curved and straight Webb SPINNING RINGS

REVERSIBLE and PLAIN TWISTER RINGS

NITRIDED Rings with a surface hardness of 67 to 69° C Rockwell have greater resistance to wear . . . and are practically FREE from corrosion.

Accurate Profile
Mirror-like Finish
For Longer Life—
Fewer Ends down—
Increased Spinning & Twisting Production—
Improved yarn Quality

R+F **NITRIDED SPINNING and TWISTER RINGS**

TEXTILE SUPPLIES — W D — USED MACHINERY

Watson & Desmond

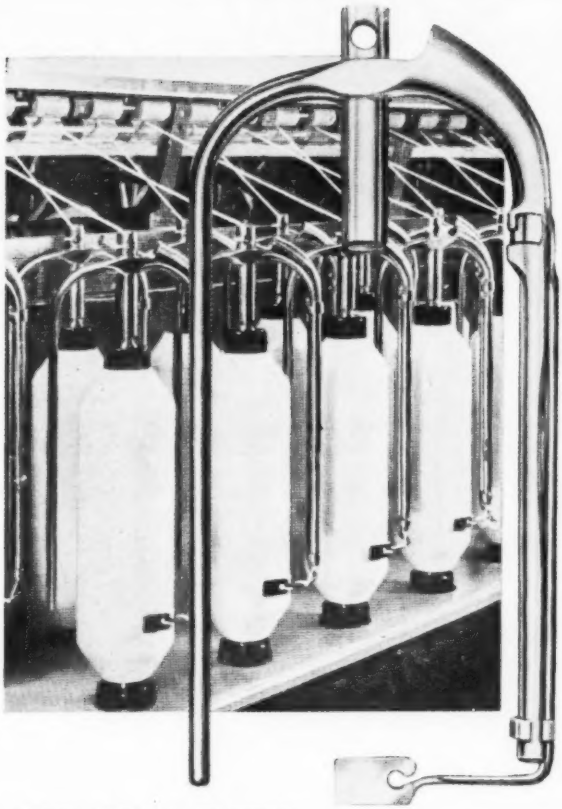
P. O. BOX 1954 • CHARLOTTE, NORTH CAROLINA

SEE IT ALL AT BOOTH 128

SEE THESE ALSO AT OUR BOOTH 128

15 to 25% INCREASE

IN WEIGHT OF ROVING—
WILL PAY FOR ITSELF IN
7 to 24 MONTHS



MAIER PRIMA FLYERS

HEAVY CONSTRUCTION OF SHOULDERS . . . prevents spreading — allows you to extend width of flyer to the maximum permissable by the gauge of your frame.

HIGH POLISH . . . especially in throat and hollow leg—prevents "eye browing" and insures high quality roving.

NOTCHED THROAT . . . puts false twist into roving back to the front roll—preventing excessive ends down.

DESIGN OF DROP PRESSER . . . the gentle angle of the roving as it leaves the hollow leg and starts to wind around the presser finger prevents the breaking away of fibers from the roving.

DYNAMICALLY BALANCED . . . every flyer is balanced at maximum operating speed within a tolerance of ± 3 grams.

ACS FINISH . . . special anti-rust and anti-corrosive finish that will withstand corrosive action of synthetic fibers.

Location of Slot in eye of the presser finger makes threading almost automatic.

A HIGH SPEED TWISTER SPINDLE

by Zinser

FOR SPEEDS UP TO 15000 RPM AND PACKAGE WEIGHTS TO 15 POUNDS

EQUIPPED WITH GENUINE SKF - HF & HZ ROLLER BEARING INSERTS.

SWEDISH STEEL CHROME PLATED BLADE
CHROME PLATED STEEL WHORL
INTERNAL EXPANSION KNEE BRAKE OR FINGER BRAKE
STEEL BASE WITH RUST RESISTANT FINISH

For all Twisting Applications, including: Draw-Twisters, Ply and Cable Twisters, and Up-Twisters. Many thousands are running perfectly in mills in the United States.

TOP DRIVE FILLING SPINDLES — WARP SPINDLES — PAPER PACKAGE WOOLEN SPINDLES —

ALSO MADE BY . . . Zinser

TEXTILE SUPPLIES W D USED MACHINERY

Watson & Desmond

P. O. BOX 1954 · CHARLOTTE, NORTH CAROLINA

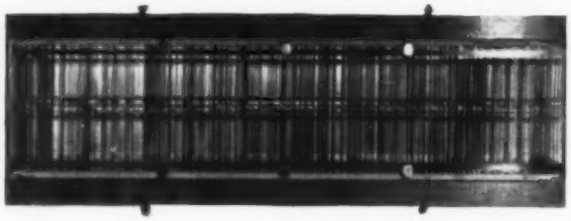
TEXTILE SUPPLIES W D USED MACHINERY

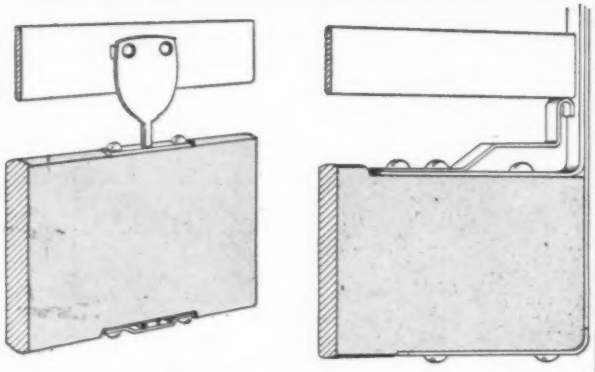
Watson & Desmond

P. O. BOX 1954 · CHARLOTTE, NORTH CAROLINA

PIONEER

MILL-TESTED • MILL-PROVED
DRAW-RITE HEDDLES & FRAMES





STA-RITE PLATE. (Left) Prevents enlargement of the hole in the wooden frame, increasing the life of the rod support. Metal plate holds stub in center of shaft.

DRAW-RITE COMPRESSION SPRING. (Right) Simplicity of this unit permits easy addition and removal of heddles. Constant pressure takes shock off of the heddle bar, thereby reducing wear on end piece.

NU REED
WITH PATENTED RIB CONSTRUCTION

Completely interchangeable with standard reeds, Pioneer's NU REED affords 10% to 15% additional weaving space. Stronger, more resilient, more durable.

CHECK PIONEER FOR THE LATEST DEVELOPMENTS IN:

Flat Steel Heddles
Repair Heddles
Accessories
Frames
Reeds
Tape Selvages
Combs
Dropwires

PIONEER HEDDLE & REED CO.

P. O. Box 10586, Atlanta, Ga. Tel. PL. 3-2136

REPRESENTATIVES

AMERICAN SUPPLY CO., Central Falls, R. I., Tel. PA. 3-9407
ODELL MILL SUPPLY CO., Greensboro, N. C., Tel. BR. 2-2113
GREENVILLE STEEL SUPPLY CO., Greenville, S. C., Tel. CE 3-6241

THE PERFECT SIZE PACKAGE FOR YOUR MILL

Better than half a century of experience enables FRANK G. NORTH, INC., to provide you with the perfect, tailor-made size package for your mill.

NORTH'S complete sales staff is made up of trained technicians . . . ready and anxious to serve you!

FRANK G. NORTH
INCORPORATED
MANUFACTURING CHEMISTS

Atlanta, Ga. • P.O. Box 123, Sta. A • Phone PLaza 3-2196
Marietta, Ga. • P.O. Box 92 • Phone Marietta 9-4323

of two metal drums enclosed in steel framing. Depending upon the application, a number of units are combined to form an integral drying line with feed and delivery units especially adapted for the material to be processed. Drying is done by air suction.

The fiber or fabric is held onto the first drum by air suction for one-half its circumference and is then transferred to the second drum. The transfer causes the material to be turned over during passage onto the second drum. At all times there is 100 per cent penetration of the drying air through the fiber.

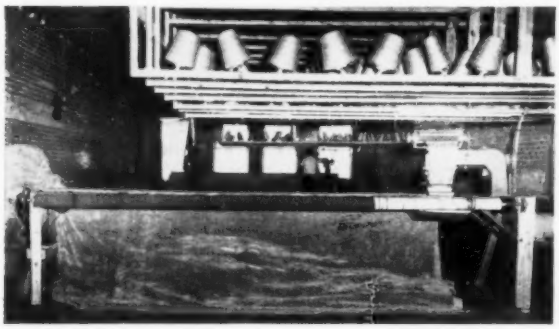
The drying air is brought through the fiber at high speed, passing through the fan and heating elements and back into the drying chamber. Recirculating the air permits the economical use of extremely high air speeds. The fiber is in the drying unit less than one-tenth the time required by the conventional dryer.

Saco-Lowell Shops, 60 Batterymarch St., Boston 10, Mass.

Do you want more data? Write ◆ or use card on page 251; list K-109

24-needle machine tufts roll carpets

Among the advantages of a relatively inexpensive carpet tufting machine are: self-aligning ball bearings; adjustable counter balance; easy-to-change attachment for cut or loop pile; and roller-type duck and yarn feeds. The



24-needle machine, called the T-M 8-18, controls pile height from 5/16" to 1½". It will tuft roll or custom-fitted carpets of wool, cotton, nylon, or rayon and requires little changing time in adjusting loop height or in switching patterns.

Tufting Machine Co., 1212 Murray Ave., Dalton, Ga.

Do you want more data? Write ◆ or use card on page 251; list K-110

Wool spinning frame varies roll speeds

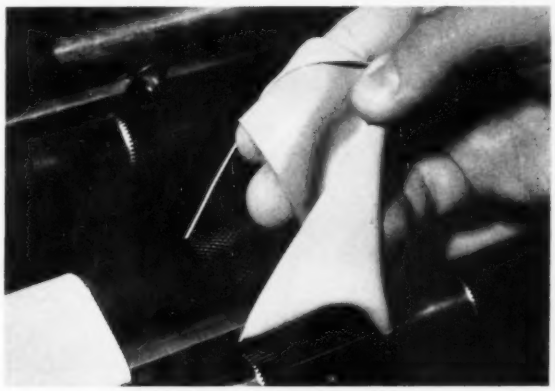
Substantially increased production within the same floor space and with the same labor requirements are specific advantages offered by a woolen ring spinning frame equipped with variable-speed controls that permit, among other things, front roll speeds to be varied to offset changing "angles of pull" as the yarn traverses from the bare bobbin to the outside diameter of the packages and back again.

Setting speeds for a new production change gears to fix the maximum front roll speed and the adjustment of three knobs that control: (1) maximum operating speed; (2) minimum operating speed; and (3) acceleration rate from standstill to operating speed. Further maximum and minimum speed adjustments are made with the frame running. The variable-speed motor drive and magnetic clutch and electronic controls are available for new or existing Models F and G frames.

Davis & Furber Machine Co., N. Andover, Mass.

Do you want more data? Write ◆ or use card on page 251; list K-111

Spinning apron discourages lapping



A bottom spinning apron (Accotex NO-7876) with long life proved in actual use is compounded from two Buna-N oil-resistant rubbers developed to meet the different requirements of the outside and inside of the apron. Built-in electrolytes help reduce the build-up of fibers on the apron surfaces. The outer rubber surface has great resistance to flex cracking and has proper fiber handling properties. The inner rubber is abrasion resistant and tracks correctly on the knurled drive roll. This surface also has a low coefficient of friction to allow it to run smoothly over the nosebar without tucking.

The rubber surfaces are bound together by a seamless construction that uses a strong cord interliner to prevent stretching and curling, and the built-in electrolytes neutralize electrical charges to destroy the attraction between the fibers and the apron surfaces.

Armstrong Cork Co., Liberty and Charlotte Sts., Lancaster, Pa.

Do you want more data? Write ◆ or use card on page 251; list K-112

High-speed warp-to-bobbin winder

Better-built and larger packages are wound from warps at speeds of 150 to 350 yards per minute on the Model N Electromagnetic Warp Winder made by Thos. Holt, Ltd., of England. Using spindles with magnetic couplings (accompanied by the necessary power and speed controls), the machine offers complete automatic control over speed and tension from the bare bobbin to the maximum package diameter.

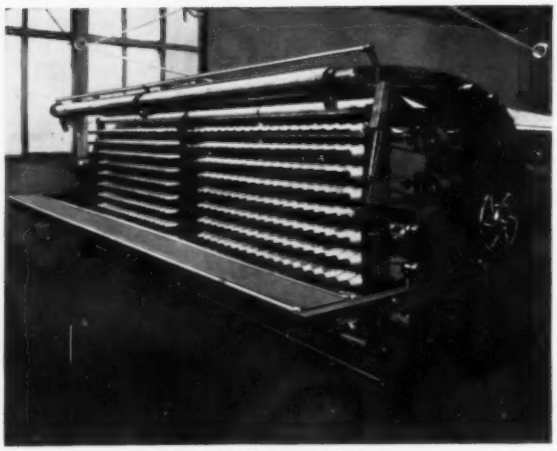
Winding speed and tension may be preset to remain constant throughout the winding cycle. Over-all speed control may be exercised by the operative, however, from zero to maximum through a simple control bar. Package size and shape are also maintained automatically regardless of changes in yarn count. In stopping or standing for end repairs, the machine exerts a measure of power

TEXREZ EXTENDER G

Essential to an improved finish!
Gives desired "Hand" to fabrics!

- builds "hand" on crease-resistant fabrics!
- when reacted with thermo-setting resins . . . outlasts repeated washings!
- economical to use: tremendous body-building properties that cost **so** little!
- cold water soluble . . . quickly forms fluid, stable solutions!
- all films are colorless, transparent!

STEIN HALL
285 MADISON AVENUE NEW YORK 17, N. Y.
MUrray Hill 9-0800



The Model N warp winder

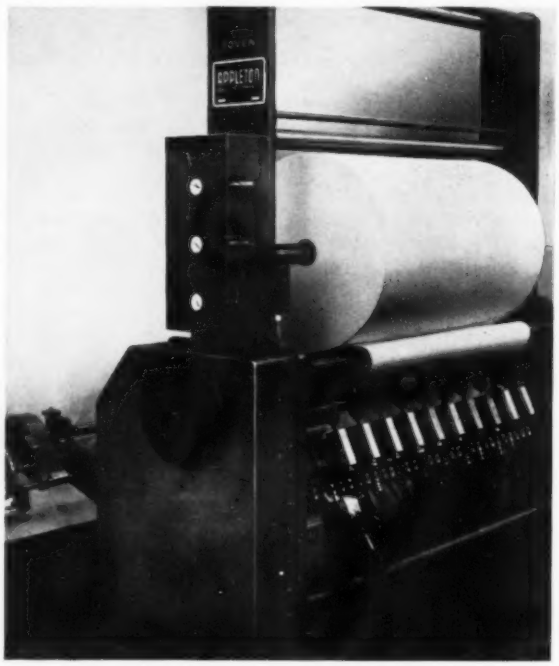
through the spindles to take up the slack at proper tension from the repaired ends (no hand winding necessary) and to prevent snarling. The operative's work platform is raised or lowered electrically to permit easy reach of all tiers of spindles.

Thomas Holt, Ltd., Atlas Works, Whitworth Rd., Rochdale, Lancaster, England.

Do you want more data? Write ◂ or use card on page 251; list K-113

Air-operated cutters on shear cut slitter

Coated fabrics, textiles, paper, etc., are slit to widths as narrow as ¼" on the Model SR-60 shear cut slitter. Web widths of the slitter vary from 36" to 125" with the standard model taking parent rolls up to 48" in diameter. Optional equipment increases the capacity to 60". The machine can be equipped with virtually any type of electrical or mechanical drive for a variety of applications. Air-operated cutters, which can be set by the in-



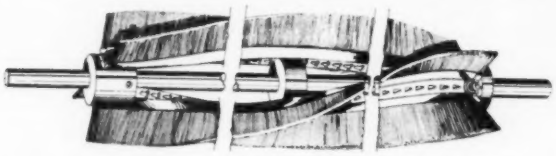
experienced person within 0.001" tolerance regardless of the number of times they have been ground, insure equal pressure at all points while operating.

Appleton Machine Co., Doven Div., Appleton, Wis.

Do you want more data? Write ◆ or use card on page 251; list K-114

Steel spiral brush keeps flats cleaner

Card sliver is improved in quality by the presence of spiral card flats brushes equipped with stainless-steel bristles. The stronger wire bristles, given needed flexibility by presence of a correct proportion of other fiber, brush the areas around the foundation and prevent any



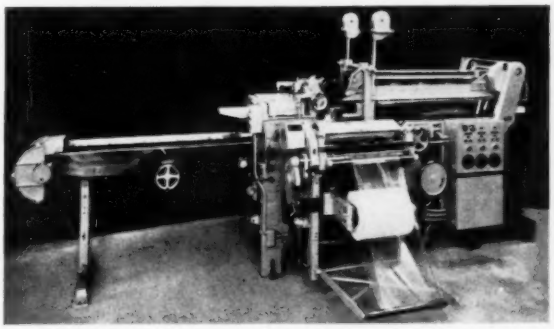
build-up of trash below the knees of the flats wire. By preventing trash accumulation at this point there is none to transfer itself to the stock in process. The wire does not deform from use; the bristle tips continue to enter the wire at the proper angle for best cleaning.

Saco-Lowell Shops, 60 Batterymarch St., Boston 10, Mass.

Do you want more data? Write ◆ or use card on page 251; list K-115

Wraps in plastic film at high speed

A wide-range wrapping machine, the Model 475, for "weld-wrapping" unsupported polyethylene and other



soft plastic films in speeds up to 75 packages per minute, will overwrap packages within the following range: 4¾" to 12½" long; 3" to 8" wide; and ½" to 4½" high (5" to 9" on special construction). The machine can be furnished with either end-fold or underneath-fold and with a variety of accessories. It will utilize such films as cellophane; waxed paper and laminated foils; polyethylene in low, medium, and high densities; heat-sealing Mylar; cellulose acetate; polymer-coated cellophane; Vitafilm; Pliofilm; etc.

Battle Creek Packaging Machines, Inc., 115 Twelfth St., Battle Creek, Mich.

Do you want more data? Write ◆ or use card on page 251; list K-116

Avondale Yarns

Sold through Comer-Avondale Mills, Inc. Headquarters: Sylacauga, Alabama

Sales Offices: Boston, Charlotte, Chattanooga, Chicago, New York, Philadelphia, Reading.

PRODUCERS OF QUALITY COMBED AND CARDED COTTON KNITTING YARNS

AVONDALE YARN

SUPERSIZE XL

Yes — STODGHILL, maker of "The Size That Satisfies", is proud to announce SUPERSIZE XL.

SUPERSIZE XL is a unique approach to sizing cottons, woolens and synthetics. It is a blend consisting of high melting point fats, dispersants, anti-foaming agents, anti-sticking agents, mildewcides and soluble vegetable cellulose binders. A 100% Active ingredient product, it is tailored to fit each mill's requirements.

SUPERSIZE XL is a proven product. Mills are obtaining excellent results on difficult weaves.

STODGHILL & CO.

716 PONCE DeLEON PLACE ATLANTA, GA.

EXCLUSIVE SOUTHEAST AGENTS FOR
SUPERIOR SLASHING AND FINISHING ROLLS BY
SAM'L BINGHAM SON'S MFG. CO.
"World's largest exclusive roll manufacturer"
WRITE OR CALL FOR MORE DETAILS TODAY

Machine attachment for seaming Getaz toes

The Controlled Contour Seaming Attachment (includes switch, solenoid, chute, and shelf) for the Merrow sewing machine M-4D-45 permits stockings to remain tied in one-dozen-pair lots while the Getaz toe is seamed.

The stocking is placed on a plush-lined template, the hinged top section lowered to hold the stocking, and the toe is closed by rotating the template through an arc of about 100 degrees to bring the necessary portion within the needle path. Available also is the Paramold form containing a short center groove that accommodates the seam while steaming the Getaz toe. Thus the seam is held in place and enables toe reinforcements to match on both sides of the finished stocking.

Paramount Textile Machinery Co., 131 Wabash Ave., Chicago 3, Ill.

Do you want more data? Write or use card on page 251; list K-117

Weaves elastic and tape at 1400 spm

A narrow fabric needle loom (for photograph, refer to the Greenville Show Preview beginning on page 125) operates at better than 1400 sheds per minute on both elastic and tape. The loom inserts two picks per shed, and each machine produces two pieces of tape at this speed. It is of eight-harness capacity with four picks to the round. Cams available are 1/1, 2/2, 2/1, and 1/3. Maximum fabric width: 1¼". No quilling is required.

The tapes are woven side-by-side on the same level to assist the weaver in watching quality, repairing broken warp ends, or when drawing in. The machine is equipped with a filling stop motion and a warp stop motion with signal light. A filling slug indicator is available as an optional feature.

Crompton & Knowles Corp., 93 Grand St., Worcester 1, Mass.

Do you want more data? Write or use card on page 251; list K-118

Produces 135 pounds of sliver per hour

In a single process the Swiss-made Converter D 6/2 transforms filament tow into a sliver of staple fibers—the tow is cut to a definite staple length, combed in the intersecting gill box, drawn to the required fineness, and

condensed in a crimping box ready for subsequent processing. The cutting action retains fiber elasticity completely, gives absolute control over staple length (both rectangular and triangular staples are possible), offers a free choice of staple length within broad limits, enables various types of fibers to be processed, and allows speedy alteration of staple length and count. Knife roller speed is 12-18 fpm; output is up to 135 pounds per hour; staple length range from 3″ to 6⅞″; can diameter is 12″ to 16″.

The machine is built with all control levers on the left side and all change points on the right. The machine is set with a few simple manipulations, as the gears are easily changed. A swivel crane can be mounted on the cutter head to enable the cutting roller to be quickly changed when the staple length is altered.

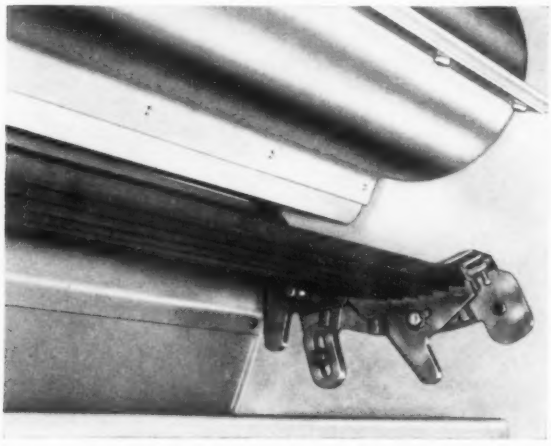
The entire gearing is dust proof, and the motor and switch box are built into the machine and are easily reached. Main shafts rotate in closed, dust-proof roller bearings and the transmission chains run in an oil bath. The steel gears rotate slowly and need little greasing, and only a few gill box bearings have to be lubricated at short intervals.

American Rieter Co., Inc., P. O. Box 777, Passaic Ave. & Clinton Rd., West Caldwell, N. J.

Do you want more data? Write ◂ or use card on page 251; list K-119

Grid bar assembly aids stock cleaning

Adjustable cheeks hold 16 grid bars in the F-7 feeder and enable them to be adjusted at the settings and angles needed for improved waste extraction, depending on the



mill's quality requirements. Bar design and manner of support prevent their bending or breaking under large lumps of cotton.

Saco-Lowell Shops, 60 Batterymarch St., Boston 10, Mass.

Do you want more data? Write ◂ or use card on page 251; list K-120

Classifies weights electronically

Proof of weight accuracies in the range of 1 part in 5000 to 1 part in 20,000 is given by the Basic Weight Classifier (see picture in the Greenville Show Preview which begins on page 125). This instrument consists of Exact Weight Shadograph scales equipped with photo-

IN A FLASH!

we can prove to you

BLUE STREAK

HAIRON CHECK STRAPS

increase production and reduce costs meaning

MORE PROFITS FOR YOU

Proven Performance A Georgia Mill, using BLUE STREAK HAIRON CHECK STRAPS *exclusively* for one year, reports their strap cost less than in any previous year — even though they increased the speed of their looms during the one-year period! That's because BLUE STREAK HAIRON CHECK STRAPS are cut from Foreign Hairon Leather which has been thoroughly tested and mill proven.

ALSO IMMEDIATE SHIPMENT ON:

ABCO Binder and Front Box Plate Leathers
VELVET Binder and Front Box Plate Leathers

All Types and Shapes of Loom Leathers

Any of our representatives will be happy to call on you—write or phone:

ERNEST D. KEY, SR., President — 510 Whitehall St., S.W., Atlanta, Ga. Telephone—MUrray 8-1483
ERNEST D. KEY, JR., Executive Vice-President — Monticello, Ga. Telephone 2121
JULIAN S. HARRIS, Vice-President — 232 Altondale Ave., Charlotte 7, N. C. Telephone—Edison 23055
EDWARD H. BRANCH, Secretary — 1508 Poincianna St., Huntsville, Ala. Telephone—Jefferson 4-6204
ALLAN D. SCOTT — R.F.D. #2, Box 506, Selma, Ala. Telephone—Trinity 44118
CHARLES R. DAVIS — 705 Forrest Ave., East Point, Ga. Telephone—Poplar 1-6781
JOHN C. LONG — P. O. Box 4871, Dallas 6, Texas Telephone—Tenison 9416
JAMES D. ELLINGTON, JR. — 2075 Dellwood Dr., N. W., Atlanta, Ga. Telephone—Trinity 2-4083

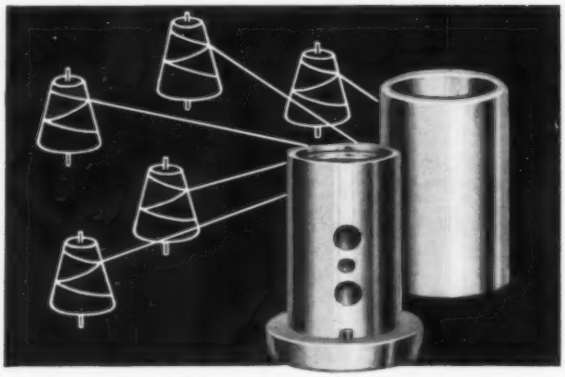
ATLANTA BELTING COMPANY
508-510 Whitehall Street, S. W.
Atlanta 3, Georgia
Telephones MUrray 8-1483-4-5
Manufacturers of Leather Belting & Textile Strapping

NEW PRODUCT PARADE

MANN
SPINNING
and TWISTER RINGS

• CASE HARDENED STEEL
• NITRIDED STEEL
• HIGH-LUSTER FINISH

LENKOTEX COMPANY, INC.
136 LIBERTY ST. • NEW YORK 6, N. Y.
GREENVILLE TEXTILE EXHIBITION—BOOTH 118



Johnson Bronze offers quick delivery on a full line of high quality Textile Replacement Bearings

Johnson Bronze can deliver a large variety of textile machinery replacement bearings from stock. These special bearings are made to the same specifications as the originals which they replace, and will give the same satisfactory service.

The fast Johnson service on bearings for all types of textile machinery, and the high quality of their products make Johnson Bronze your best source for replacement bearings. Write for free literature, requesting Folder JBL-9. Johnson Bronze, 530 S. Mill St., New Castle, Pa.

JOHNSON Bearings

Johnson Textile Bearings

Subsidiary: Apex Bronze Foundry Co., Oakland, Cal.

cells mounted adjacent to the visual dial. These cells operate relays at adjustable preset weight values to accuracies better than two times the advertised scale sensitivities. A controller is employed to house the necessary circuit controls to actuate automatic transfer mechanisms, recorders, counters, etc., to give optical signals, and to classify products into weight groups. Any number of classifications from 2 to 128 can be used. It will handle textile products from a few milligrams to 100 pounds.

The Exact Weight Scale Co., 528 E. Town St., Columbus 15, Ohio.

Do you want more data? Write ◆ or use card on page 251; list K-121

Two units permit 100% warp slub control

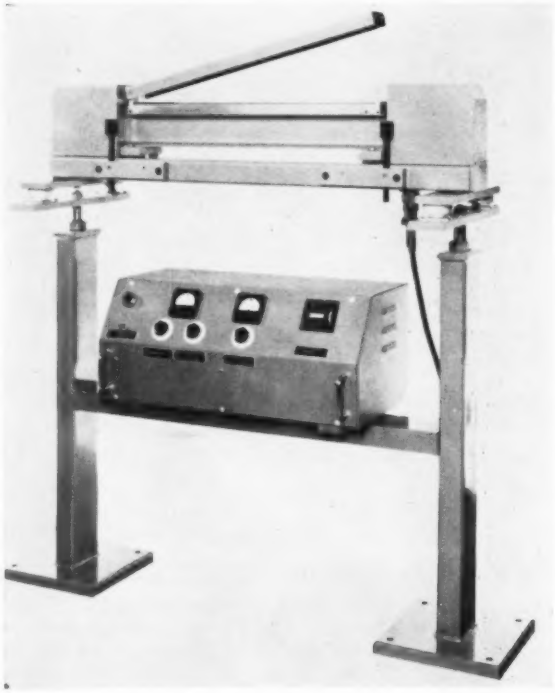
The Dual Purpose warp yarn monitor gives 100 per cent control of all warped beams. The unit can count all defects at a pre-selected level. When a quantitative analysis of all defects is required, they can be counted above a predetermined size. This action includes defects that are not objectionable enough to be removed but which, if they are counted, would lead to improving some preceding operation. The monitor can also cause the warper to stop at a second predetermined size for defects which are objectionable and should be removed. This is accomplished by using two separate control units operating off the same photo detection system.

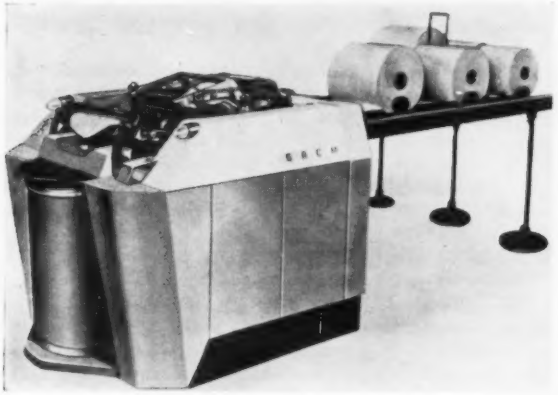
A second unit, the Linear Discriminator, has the same characteristics as the regular warp yarn monitor but in addition can discriminate between linear yarn defect changes as well as the change in the diameter of a defect.

This unit is recommended for use on warps in which knots, and some slubs that are longer than knots, are not objectionable. It can permit discrimination of a linear change from the minimum size detected by the regular yarn inspector, to a length of three to four inches. The removal of yarn defects reduces the costs involved in burling and mending and reduces second-quality fabrics.

Fabrionics, P. O. Box 521, Huntington, L. I., N. Y.

Do you want more data? Write ◆ or use card on page 251; list K-122





Vibrationless combing at 175 npm

The high-speed worsted and synthetic comb, the Perl, operates without vibration at a speed of 175 nips per minute. With modern lines, improved design, and greatly simplified settings, it may be fed from three wool laps in the creel instead of the conventional multican or multi-ball system. Built by the Societe Alsacienne de Constructions Mecaniques in France, the unit offers increased production and quality plus considerable savings in down time and floor space. A suction system keeps the underside of the machine clean, prevents any impurities from being projected back into the combed stock; and double cleaners for the top comb also increase the quality of the combed sliver.

Atkinson, Haserick & Co., Inc., P. O. Box 509, Framingham, Mass.

Do you want more data? Write ◆ or use card on page 251; list K-123

Finger-tip controls on fancy cotton loom

A "push-button" dobby loom (automatic bobbin changing, 54" between swords, 4 x 1 box) is intended for fancy cotton, spun rayon, and dress-goods weaving mills. With driving and clutch mechanisms that include push-button stations, the loom, called Model C-7, is further equipped with electrical controls for starting, stopping, and jogging. For stoppages due to filling breakages, the loom will automatically reverse to back center position. For stoppages due to warp breaks, the position of the lay can be controlled as usual by means of a cam. The lay motion is almost entirely constructed of extruded aluminum alloy, reducing the over-all weight of this assembly by approximately 50 per cent.

All wiring, controls, etc., have been compactly located in a small panel at the rear of the loom. The material contained there is of simple design and of a type that can be obtained without difficulty in any local radio repair shop.

The conventional shock associated with loom protection is eliminated. The loom is equipped with an electric protection activated by a small piece of transformer iron imbedded in the shuttle passing over a permanent magnet coil in the lay in accordance with a predetermined timing cycle. In the event the shuttle is not in the proper position during its flight, the loom is brought to a smooth and fast stop through the electrical controls.

Crompton & Knowles Corp., 93 Grand St., Worcester 1, Mass.

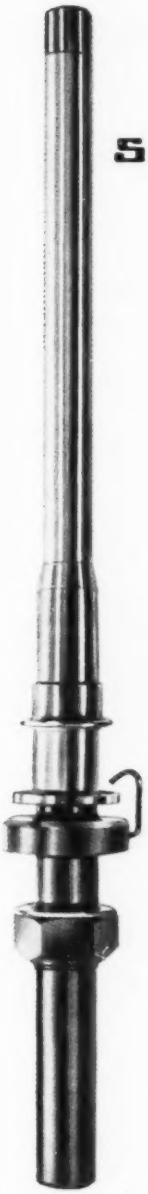
Do you want more data? Write ◆ or use card on page 251; list K-124

Spintex

SPINDLES
WITH
SKF ROLLER BEARINGS

TYPE HM
TYPE HZ
TYPE HF

WARP
FILLING
TWISTING



made to
specification
- Steel Driving Tip
- Alu Adapter for Paper Tubes
- Steel Whorl
- SPINTEX Doffer Guard (Pat. Pend.)
- Steel Base
- Knee Brake

Spintex

LENKOTEX COMPANY, INC.
136 LIBERTY ST. • NEW YORK 6, N. Y.
GREENVILLE TEXTILE EXHIBITION—BOOTH 118

NEW PRODUCT PARADE

SAVE

ON PRODUCTION COSTS AND INCREASE QUALITY

WITH

BOULIGNY

TRU-DRAFT COMPLETE LONG DRAFT SYSTEM

•

BOULIGNY

TRU-DRAFT BAND TO TAPE DRIVE CONVERSIONS

•

BOULIGNY

TRU-DRAFT LINT FREE UMBRELLA CREELS

•

BOULIGNY

COMPLETE SPINNING ROOM REBUILDING

•

BOULIGNY

PRECISION RING TWISTER CONVERSIONS

•

BOULIGNY

ELECTRIC STOP MOTIONS FOR SLUBBERS

•

BOULIGNY

PRECISION SPINNING FRAME REPLACEMENT PARTS

•

Our trained technical staff can assist you on ANY spinning room problem.

COME SEE US IN BOOTH 828 AT GREENVILLE!

the BOULIGNY COMPANY
DIVISION OF R. H. BOULIGNY, INC.
CHARLOTTE, N. C.

New dyes and chemicals

Foam in textile finishing processes is quickly killed by the addition of a small quantity of SAG 470 silicone antifoam emulsion (a companion product, SAG 47, is used in nonaqueous foaming systems). The product is chemically inert, resists oxidation over long periods, contains 10 per cent silicone solids by weight, and is ready for use.

Silicones Div., Union Carbide Corp., 30 East 42 St., New York 17, N. Y.

Do you want more data? Write supplier or use card on page 251; list K-238

The nonionic softener Softyne R is for use in all types of resin finishes for cottons and rayons requiring high-temperature curing or mechanical polishing or embossing operations. It lubricates, produces softness, and has extreme resistance to yellowing at high temperatures.

Hart Products Corp., 1440 Broadway, New York 18, N. Y.

Do you want more data? Write supplier or use card on page 251; list K-239

Sulfonated oils for use in textile processing are available in a variety of types—Textile Oil (produced from castor oil), olive-type oils, and others made on request. The oils are recommended for dyeing and bleaching, as kier-boiling agents, as emulsifiers, for pasting dyestuffs, and as finishing oils. The sulfonated castor oil is especially recommended as a dyeing assistant and leveling agent for hosiery and piece goods.

Laurel Soap Mfg. Co., Inc., Tioga, Thompson & Almond Sts., Philadelphia 34, Pa.

Do you want more data? Write supplier or use card on page 251; list K-240

The black dyestuff Visco Black BAW is for use on viscose and on viscose-acetate blends whenever good acetate reserve is desired. Especially recommended for viscose lining material and viscose automotive carpeting, the dye has high fastness to light, water, crocking, perspiration, dry cleaning, and hot wet processing.

Sandoz, Inc., 61-63 Van Dam St., New York 13, N. Y.

Do you want more data? Write supplier or use card on page 251; list K-241

A scarlet dyestuff possesses outstanding fastness to light. Called Pyrazol Fast Scarlet RL, it also gives excellent acetate reserve and assures a minimum of shade change in resin finishing.

Sandoz, Inc., 61-63 Van Dam St., New York 13, N. Y.

Do you want more data? Write supplier or use card on page 251; list K-242

A fabric finish that produces greatly increased wearing comfort of fabrics made of synthetic fibers is equally applicable to blends of natural and synthetic fibers. The finish, known as Hysorb, renders fabrics absorbent (through a wicking action) to give them a more natural feel and greater skin compatibility. It is readily applied with conventional equipment and by recognized methods. Durability is assured for against-the-skin garments when they are laundered in the milder detergents.

Scholler Bros., Inc., Collins & Westmoreland Sts., Philadelphia 34, Pa.

Do you want more data? Write supplier or use card on page 251; list K-243

A durable textile finishing agent is usable on all natural and synthetic fibers to improve sewability, spot resistance, and water repellency. In preparing "drip-dry" or "wash-and-wear" finishes, Phobotex FTA may be applied alone or in combination with urea formaldehyde or melamine formaldehyde resins. No unpleasant odors develop during finishing and it is not necessary to wash goods after curing.

Ciba Co., Inc., 627 Greenwich St., New York 14, N. Y.

Do you want more data? Write supplier or use card on page 251; list K-244

Equipment briefs

Stainless piping systems of brazed or welded connection may be completed more easily with a new aligning connector that fits over the ends of pipe or fittings to maintain alignment until brazing or welding secures the joint. Specifically designed to be used with Speedline fittings and lightwall piping systems Schedules 5 and 10, the connector makes possible in-place preassembly of complicated process piping layouts.

Horace T. Potts Co., 504 Erie Ave., Philadelphia 34, Pa.

Do you want more data? Write supplier or use card on page 251; list K-200

Cloth cutting machines with 35 per cent more knife life are equipped with a patented abrasive-belt sharpening principle that keeps the edge straight throughout the life of the blade. The principle removes little metal with each sharpening and allows a more-than-usual amount of the blade metal to be used before replacement is necessary. Available in any standard electrical specifications, and in standards from five to ten inches, the cutters also feature: (1) permanently lubricated motor bearings; (2) an adjustment to compensate for sharpener-driver wear; (3) a longer-lasting sharpener driver; and (4) an instant-action pressure foot rod release.

Eastman Machine Co., 779 Washington St., Buffalo 3, N. Y.

Do you want more data? Write supplier or use card on page 251; list K-201

Open-type electric motors rated for Class B temperature rise (available at the same price as conventional Class A motors) operate wherever moisture, heat, dirt, dust, or other contaminants are a problem. The Super-Seal motors contain an insulating material that permits the motors to run submerged in water containing 4 per cent salt. The insulation, a silicone-rubber compound called Silco-Flex, ends heat aging and requires no protection against contaminants such as corrosives and oil.

Churning bubbles at full rpm is an Allis-Chalmers open motor with epoxy-encapsulated stator.

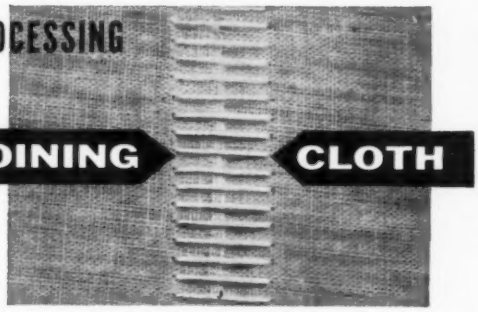
Allis-Chalmers Mfg. Co., 1054 S. 70th St., Milwaukee 1, Wis.

Do you want more data? Write supplier or use card on page 251; list K-202

Wrap-around bumpers for handtrucks offer greater protection for walls, machinery, and other surfaces subject to abuse from such vehicles. The bumpers are extruded from a special nonmarking gray rubber having the proper degree of resilience for maximum protection. This member is snap-inserted into a C-section steel channel

for DYEING • BLEACHING • FINISHING • PROCESSING

HERE'S A BETTER METHOD OF JOINING CLOTH



MERROW Butted Seams

Joining piece goods end-to-end with a Merrow Butted Seam improves processing and saves material because:

- Material moves through continuously, speeding production.
- Seam opens *flat* under tension of processing.
- Lack of bulk at seam simplifies calendering, shearing, napping, printing, coating, filling, etc.
- Seam "gives" with material.

Machines may be used in conjunction with several different types of cloth handling equipment and are also available for joining *knitted* fabric for processing.

Write today outlining your particular processing problem. We'll be glad to make recommendations and submit sample stitches on your own material.

TRADE MARK REG
The MERROW MACHINE COMPANY
2805 LAUREL ST. • HARTFORD, CONN. • U.S.A.

More Than 700
LEADING MILLS
depend on

LINTGO*
TEXTILE MACHINERY CLEANER

** the non-flammable, economical cleaner for lint-clogged machinery.*

Prevents
SECONDS, SLUBS and CORROSION

Improves
WORK QUALITY and WORKING CONDITIONS

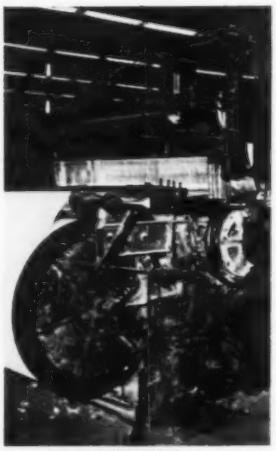
Easy to Use

1. *LINTGO diluted with cold water is sprayed onto textile machinery*
2. *Lint, oil and Soils are removed by blowing off with compressed air.*

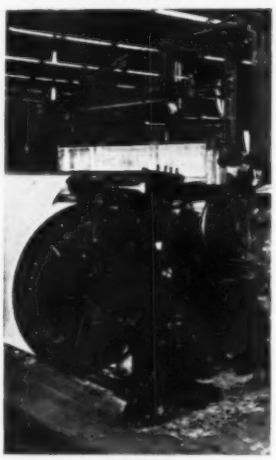
•

LEAVES MACHINERY CLEAN and LINT-FREE. LINT DOES NOT SWIRL INTO THE AIR.

•



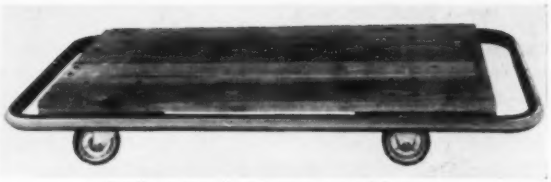
BEFORE



AFTER

LINTGO is non-corrosive, odorless, non-flammable, fumeless, non-toxic and inhibits rust. It can and will solve your lint problems quickly, easily, economically and without hazard. Send for technical literature explaining properties, methods of application, etc., today.

Lester Laboratories, Inc.
P. O. BOX 4897 ATLANTA 2, GA.



Truck equipped with wrap-around bumper

fabricated to the proper shape to protect all sides of the truck.

The Colson Corp., Jonesboro, Ark.

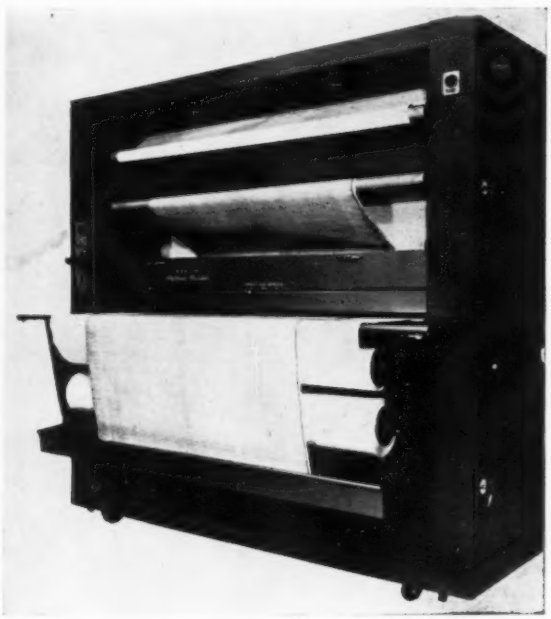
Do you want more data? Write supplier or use card on page 251; list K-203

Steam traps engineered especially for light condensate loads permit exceptional economy of operation and maintenance at light loads. The Yarway No. 30 traps contain a lever-type valve that pivots about a fulcrum, discharges air and condensate at full capacity at start-up time, and snaps shut when steam reaches the trap. They have a replaceable valve-seat assembly, only one moving part, and are made of stainless steel. Available in ½" size only, for operating pressures of 8 to 600 pounds, they are recommended for use on steam tracer lines, steam main drips, etc.

Yarnall-Waring Co., 102 E. Mermaid Lane, Philadelphia 18, Pa.

Do you want more data? Write supplier or use card on page 251; list K-204

A whiteprinting machine that produces low-cost, exact and clear copies of markers for garment manufacturers accommodates original markers of any length up to 63" in width and delivers completely dry marker prints at speeds up to 20 feet per minute. The Pattern Printer reduces material loss, eliminates costly hand tracing errors,

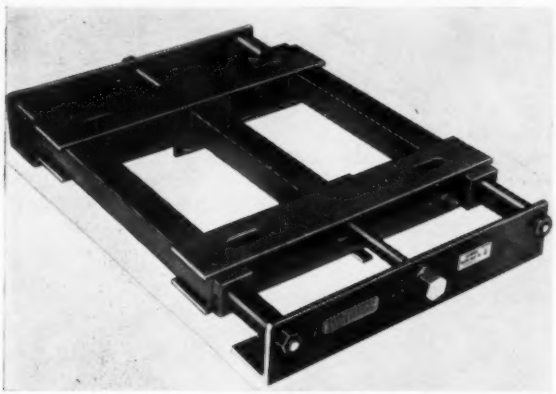


saves production time, reduces space requirements, and generally increases the cutting department efficiency. No special skills are required to operate it.

Ozalid Div., General Aniline and Film Corp., 18 Corliss Lane, Johnson City, N. Y.

Do you want more data? Write supplier or use card on page 251; list K-205

Two models of motor bases maintain correct belt tension. Accepting motors ranging in size from ¼ to 500 horsepower, the bases utilize spring tension that corrects for a considerable amount of belt stretch before readjustment is necessary. Adjustment consists of turning only



one screw to the desired point. Compact, designed for use where space is at a premium, they can be mounted in any position, accommodate motor rotation in either direction, and always maintain initial pulley alignment.

Automatic Motor Base Co., Windsor, N. J.

Do you want more data? Write supplier or use card on page 251; list K-206

Semi-steel, self-cleaning pipeline strainers are available in sizes from ¼" through 3". Features of this strainer, the type AT, are: high-strength, semi-steel bodies; screen cylinder fits tightly without buckling; perforated heavy-gauge screen with spot-welded lap seams; and built-in sediment collection chamber integral with cap. The 45-degree design facilitates clearing by blow-off. Every strainer is hydrostatically tested and is rated for saturated steam or liquids to 250 psi and 475 F total temperature.

Sarco Co., Inc., 350 Fifth Ave., New York 1, N. Y.

Do you want more data? Write supplier or use card on page 251; list K-207

A power strapping tool will feed steel strapping around any package up to 56" in height and 48" in width at a rate of five feet per second. There is no need for a second operative to help encircle the package with strapping nor for the lone operative to walk around it to perform the same function. One model of the E41 feeds strapping as long as a foot pedal is depressed; another as long as a hand lever is depressed; a third model (foot pedal actuated) feeds strapping until the strapping trips a Micro Switch with the end in within easy reach of the operative. It handles strapping from ⅜" x 0.010" to ¾" x 0.023".

Acme Steel Co., 135th St. and Perry Ave., Chicago 27, Ill.

Do you want more data? Write supplier or use card on page 251; list K-203

The portable hand embosser called Midgie Labeler quickly makes individual label strips in any desired lengths. It embosses clearly marked, permanent, raised-character lettering and numbers on half-inch strips of monel, stainless steel, aluminum, copper, vinyl plastic,

The Allen Kier for knit goods showing the center spray ring swung out for loading or unloading.

ALLEN Stainless Steel KIERS

Especially Designed **for Bleaching**

KNIT GOODS

These Allen stainless steel kiers have many advantages which assure better, more efficient bleaching. For finest bleaching liquor coverage, they are equipped with a stationary spray ring on the periphery and another ring covering the center which can be swung out for easy loading and unloading.

Special prefabricated unit-package construction permits quick, easy installation and lower cost maintenance.

SPECIAL ADVANTAGES

- Lower cost non-stretch operation
- Positive temperature control
- Smooth surfaces eliminate snag and rub marks
- Controlled circulation for efficient bleaching
- Smooth stainless surfaces eliminate rust, snag and rub marks — save chemicals

Write today for circulars giving complete information on this as well as "Package Design" cloth kiers and kiers for absorbent cotton and cotton batting.

William Allen Son's Company

SHREWSBURY, MASSACHUSETTS

Division of

O. G. KELLEY & COMPANY, Boston 22, Massachusetts

Harnisch

Temple Rolls
with
PERLON
Bushings

• complete elimination of temple cuts and marks

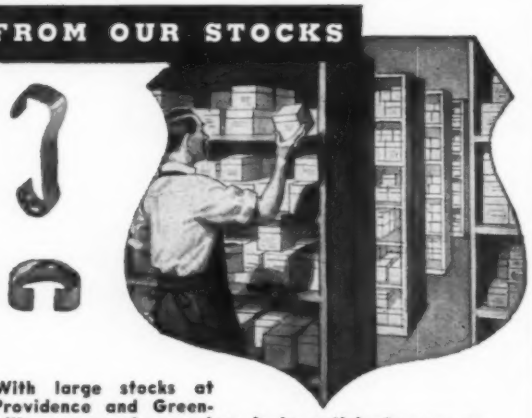
LENKOTEX COMPANY, INC.

136 LIBERTY ST. • NEW YORK 6, N. Y.

GREENVILLE TEXTILE EXHIBITION—BOOTH 118

SERVICE *that Satisfies*

FROM OUR STOCKS



With large stocks at Providence and Greenville, our usual procedure is to anticipate your requirements so that your order can be shipped consistently from stock.

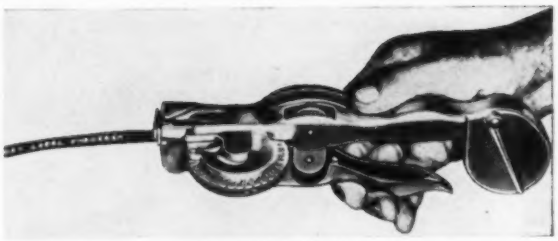
U. S.
RING TRAVELER CO.

159 ABORN STREET, PROVIDENCE, R. I.

Southern Warehouse: 1443 Augusta St., Greenville, S. C.

U. S. REPRESENTATIVES ARE AT YOUR SERVICE

R. V. BORDEN, W. H. ROSE—Greenville, S. C.—Box 1048—CEdar 3-0915
O. B. LAND—Athens, Ga.—Box 1187—Liberty 6-1647
L. H. MELLOR, JR.—Mid-Atlantic States—123 Treadv Rd.—Drexel Hill, Pa. Phone Hilltop 6-1563
H. R. FISHER—Concord, N. C.—Box 3013—State 2-1640
H. J. SMITH—Providence—Box 1187—GAspee 1-0100



The Midgie Labeler

etc. The labels have industrial uses in situations demanding an indestructible metal tag for such items as wiring, tools, chemicals being processed, parts bins, etc. The compact tool is operated by dialing the letter or number desired and squeezing the handle.

Roovers-Lotsch Corp., 3611-14th Ave., Brooklyn 18, N. Y.

Do you want more data? Write supplier or use card on page 251; list K-209

A compact, high speed photocopy unit exposes, develops, and prints finished copies of originals at any length up to 15" wide in one-half minute or less and can be operated by anyone. The Transcopy Meteor can be plugged into standard electrical outlets, and no installation is necessary. It produces sharp, clear photocopies fast, economically, conveniently, and accurately.

Remington Rand Div. of Sperry Rand Corp., 315 Fourth Ave., New York 10, N. Y.

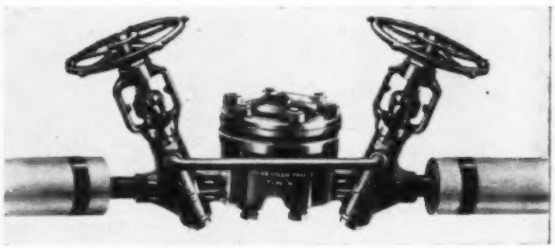
Do you want more data? Write supplier or use card on page 251; list K-210

A predetermining electronic counter automatically controls any industrial process involving high-speed counting. Called the Tally-Count, it controls batching, machine cycling, sorting, materials handling, packaging, and unit flow at speeds higher than 100 per second. When a preset number is reached, the counter will close relay contacts to operate any external device, simultaneously reset to zero, and repeat its counting function indefinitely without loss of count.

Standard Instrument Corp., Div. of Heat Timer Corp., 657 Broadway, New York 12, N. Y.

Do you want more data? Write supplier or use card on page 251; list K-211

Two-joint steam trap by-passing is possible with the Piping King, a valve combination assembly—the normal by-pass requires 24 joints. The installation can be made in all positions and conceivably can be made to by-pass any instrument manufactured. The assembly includes seven devices in one unit: (1) shut-off valve; (2) steam



trap; (3) throttling feature; (4) strainer; (5) air vent; (6) check valve; and (7) by-pass. All traps and valves are carbon or alloy steel forgings. Valves are welded at any specified angle without extra cost.

Velan Steam Specialties, Inc., 37 S. River St., Plattsburg, N. Y.

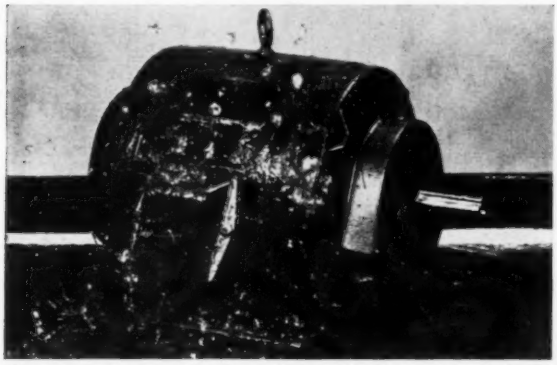
Do you want more data? Write supplier or use card on page 251; list K-212

A palm-size writing and marking instrument for marking cloth, wood, metal, etc., is available in an assortment of pastels, black, brown, white, and six brilliant colors. The Magic Marker writes in four line widths, depending on the position the point is held, in ink that is instant drying and permanent.

Speedy Products, P. O. Box 97, Richmond Hill, Jamaica 18, N. Y.

Do you want more data? Write supplier or use card on page 251; list K-213

A weatherproof a-c motor, for use in "outdoor" type installations where the motor is subjected to extreme moisture or the elements, is available in all standard sizes and speeds from 1 to 250 horsepower. An open motor that exceeds NEMA splash-proof requirements, all of its external parts are of cast iron. Shaft openings are sealed by



The motor resists constant drenching, as shown here. It is designed for all pump, fan, and other applications calling for constant exposure to excessively moisture-laden atmospheres or the weather.

a shaft cap and slinger. The insulation system cannot absorb water; the rotor outside diameter and the stator inside diameter are coated with a rust inhibitor. Protective screening for ventilating openings is available.

Reliance Electric and Engineering Co., 24701 Euclid Ave., Cleveland 17, Ohio.

Do you want more data? Write supplier or use card on page 251; list K-214

A weather-protected vertical motor is intended for outdoor operations under all weather conditions including hurricane winds, driving rain, snow, sleet, and windblown sand. Meeting NEMA Type II weather protected specifications, it is manufactured in ratings from 250 to 2000 horsepower in both hollow-shaft and solid-shaft construction. The motor is cooled by ventilating air taken from the surrounding atmosphere.

The Louis Allis Co., 427 E. Stewart St., Milwaukee 1, Wis.

Do you want more data? Write supplier or use card on page 251; list K-215

Automatic weighing of cases, cartons, and bags from 20 pounds to 100 pounds is done by the Selectrol Model 1250 at speeds up to 30 products per minute with an accuracy of one-tenth of one per cent. This automatic checkweigher is designed for installation on production lines to weigh the products while they are in motion. It is equipped with underweight rejection only or with underweight and overweight rejection through the same reject channel. Also it may be supplied without the rejection mechanism, using only overweight and underweight signal output. It records deviations on a 6" chart.

The Exact Weight Scale Co., 538 East Town St., Columbus, Ohio.

Do you want more data? Write supplier or use card on page 251; list K-216

SACCARDO

PAPER TUBES

for SPINNING and TWISTING

• bakelized
• steam-proof

LENKOTEX COMPANY, INC.
136 LIBERTY ST. • NEW YORK 6, N. Y.
GREENVILLE TEXTILE EXHIBITION—BOOTH 118

MARSHALL and WILLIAMS
cordially invites you to visit
BOOTHS 249-250-251
(Main Building)
at the
Southern Textile Exposition
Greenville, S. C.
* * *
Inspect the latest in tentering and auxiliary equipment

MARSHALL and WILLIAMS CORPORATION
PROVIDENCE, R. I.
GREENVILLE, S. C.
RED BANK, N. J.
Plants in Providence and Greenville
Serving the North and the South
M & W

360-8

KEEP MACHINES RUNNING
...reduce maintenance costs,

with DEUBLIN ROTATING UNIONS

¾" Size Union Illustrated

for water, steam and air service!

Here is a compact, efficient rotating union—

- ★ LEAKPROOF
- ★ CORROSION PROOF
- ★ EASY TO SERVICE
- ★ VIRTUALLY FRICTIONLESS
- ★ PRECISION BUILT FOR LONGER LIFE
- ★ INTERCHANGEABLE with any other rotating union
- ★ VERSATILE—For Monoflow or Duoflow operation, available in ½", ¾", 1", 1¼" and 1½" sizes
- ★ MINIMUM TORQUE makes it ideal for high speed applications

See how this dependable, new rotating joint can reduce inventory of replacement parts because of Deublin's standardization of sizes. Keep "shut downs" from wrecking your production schedules. Pays for itself many times over.

Write today for full details and prices.

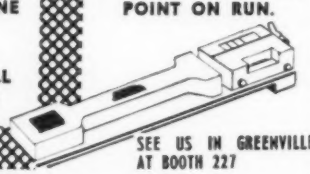
DEUBLIN COMPANY
1167 Waukegan Road
Glenview, Ill. (Chicago Suburb)

TRUMETER

STANDARD MODEL YARDAGE PRINTER

ILLUSTRATED IS THE "BUSINESS END" OF A FAMOUS MACHINE —PROVED AND TRUSTED BY THE TEXTILE TRADE ALL OVER THE WORLD

PRINTED VOUCHER DELIVERED AT ANY POINT ON RUN.

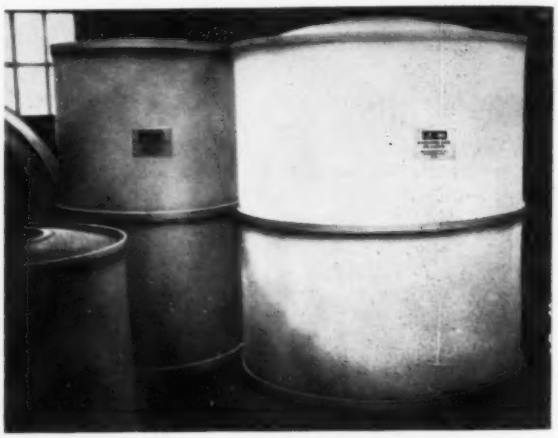


SEE US IN GREENVILLE AT BOOTH 227

Write for details

TRUMETER CO.
38 West 32nd St., New York City 1, N.Y.
IN CANADA W. J. WESTAWAY CO. LTD.
Montreal • Toronto • Hamilton

Glass fiber plastic tanks, having greater-than-steel strength-to-weight ratio in compression and tension, possess outstanding impact resistance, durability, and corrosion resistance (they withstand such chemicals as acids, formaldehyde, alum, bleaches, saline solutions, and solvents). Produced in sizes ranging from 110 gallons to



4000 gallons, they are completely sanitary—the inside surfaces are without joints and are glassy smooth. They withstand temperatures from far below zero to well over the boiling point of water.

Jones & Hunt, Inc., P. O. Box 821, Rust Island, Gloucester, Mass.

Do you want more data? Write supplier or use card on page 251; list K-217

Type S fuse adapters are easily removed in less than a minute with the X-Tract-O. The tool, built for long service, does not damage the fuse block or Edison base screw shell.

Trico Fuse Mfg. Co., 2948 N. Fifth St., Milwaukee 12, Wis.

Do you want more data? Write supplier or use card on page 251; list K-218

V-belts of neoprene reinforced with Dacron fiber give greater longitudinal flexibility while preserving transverse rigidity. The belts contain a fiber-dispersed compression member and resist abrasion, humidity, heat, oil, acids, and most alkaline materials.

Boston Woven Hose and Rubber Co., P. O. Box 1071, Boston, Mass.

Do you want more data? Write supplier or use card on page 251; list K-219

A method of pleating chemical textiles or thermoplastic fiber blends provides a practical solution to many pleating problems. ChemPleat produces sharp and durable pleats, inhibits the build-up of shine or glaze, affords greater control of the pleated fabric, eliminates or appreciably reduces detrimental cockling, bubbling, rippling, or puckering. Pleating is done through a two-stage process not requiring additional equipment.

Chemstrand Corp., Technical Sales Service Dept., 350 Fifth Ave., New York 1, N. Y.

Do you want more data? Write supplier or use card on page 251; list K-220

Temperature and humidity recording instruments designed for plant use are sturdily built for long service. Both the thermograph and hygrograph are fitted with six-inch charts, and the two instruments may be combined into a third called a Hygrothermograph and purchased at a considerable cost saving over the two bought

individually. The temperature is recorded with an accuracy of plus or minus 2 per cent over a range of 0 F to 100 F, using a bimetal coil sensing element. The hygrograph (animal membrane sensing element) is guaranteed accurate within 5 per cent over a 15 to 95 per cent relative humidity range and a 32 F to 130 F temperature range. A correction chart adapts the hygrograph to temperatures as low as minus 30 F.

Serdex, Inc., 12 Bowdoin Sq., Boston 14, Mass.

Do you want more data? Write supplier or use card on page 251; list K-221

A metal-parts cleaner that removes carbonized oils from metallic surfaces, penetrates into seized or "frozen" assemblies to loosen them, and removes dirt from small orifices is a solvent-based, cold-immersion type of cleaner that readily remove grease, carbon, and many other stains from spindles, knee brakes, and other metal parts of textile machinery. Normally a degreasing compound such as trichloroethylene vapor may be used prior to immersion in Spindle-Klean for carbonized-oil removal.

Fine Organics, Inc., 205 Main St., Lodi, N. J.

Do you want more data? Write supplier or use card on page 251; list K-222

A counterbalanced mobile floor crane has an adjustable boom with a hook reaching 48" beyond the front edge of the truck. The space above the load need not be clear to the plant ceiling, nor must the load be set on a pallet before it can be handled. Its reach extends from eighteen

inches above floor level to 10 feet. Available in 1000- to 3000-pound capacities with 48" extensions and hand or battery powered (propulsion and boom).

Vanguard Engineering Co., 1908 East 66th St., Cleveland 3, Ohio.

Do you want more data? Write supplier or use card on page 251; list K-223

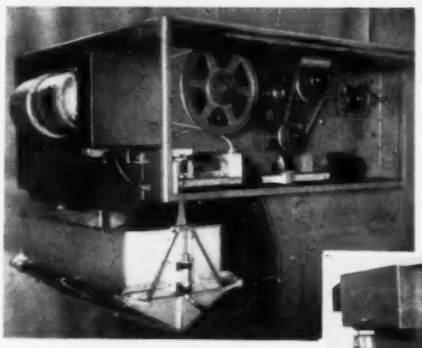
An air-line lubricator automatically maintains a constant oil level in the lubricator bowl when fed by an oil supply line with pressure from 10 to 100 psi greater than the air pressure applied to the lubricator. Called the No. A606 Perma Fog, it has a minimum oil feed rate in excess of any possible lubricator demand. Available in ¼", ⅜", ½", ¾", and 1" sizes.

Watts Regulator Co., Industrial Div., 10 Embankment Rd., Lawrence, Mass.

Do you want more data? Write supplier or use card on page 251; list K-224

Electric heaters for oil, wax, and other heat transfer fluids utilize longitudinal finned tubing for increasing the heat transfer area and consequently are made shorter than would otherwise be necessary. The Oil Immersion

OPENING—CLEANING and BLENDING SYSTEMS by FIBER CONTROLS



Weighing Pan and Dumping Mechanism of Synchromatic Feeder

FIBER CONTROLS SYNCHROMATIC BLENDING SYSTEM

is Designed to Prevent False Blends under all conditions. With this Super Sensitive Weighing Pan and Air Cylinder dumping mechanism our New tubular aluminum weighing mechanism enables our weight variation to be held below 1% average. Total variation (plus or minus) will not exceed 1%. This variation can be held regardless of the feed, whether heavy or light. Will blend any combination of fibers automatically. Economical to operate and maintain. Labor Saving. Increases Output. Improves Product and Reduces Waste. Has proven its value to Management, regardless of Mill size.

FIBER CONTROLS SCREENLESS CONDENSER

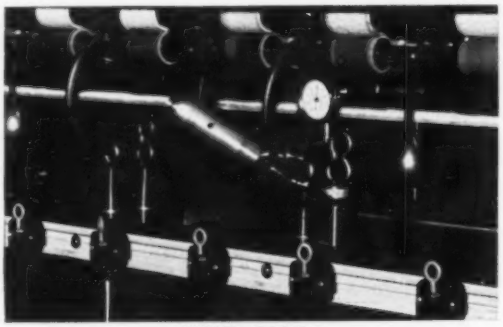
This NEW condenser, Model FC-83, made for Heavy Duty and High Production, has proven itself in efficiency and capacity production. Can be mounted vertically or horizontally with equally good results. Will handle up to 2000 lbs. of fiber per hour through ducts approximately 200 ft. in distance. Will discharge fiber without - Tumbling - Rolling or Pilling. Self-cleaning.

Inquire about more complete details of this equipment. Call or write:

FIBER CONTROLS CORPORATION
BOX 1358 GASTONIA, NORTH CAROLINA

ROLL RUNOUT INDICATOR

DEVELOPED BY WEST POINT MFG. CO.



MODEL CS-102

These units are used for checking the runout or eccentricity of both top and bottom spinning rolls and roving rolls in textile mills. Roll runout causes a loss of skein strength and an increased non-uniformity in the yarn. The magnetic base holds the unit in position so that the dial indicator will rest at approximately the center of the roll and normal to the surface of the roll. As the frame is running the fluctuations of the Dial Indicator will read the run-out which is twice the eccentricity.

CUSTOM SCIENTIFIC INSTRUMENTS, INC.

541 DEVON ST. KEARNEY, N. J.

TEL WYman 1-6403

For Quality Processing

CELLUSET #2 — Non-chlorine retentive liquid resin. Gives shrinkage control on both woven and knit cotton fabrics.

ETHAPEX — Cationic polyethylene based softener for eliminating needle cutting. Can be used for optical bleaches.

RETARDER #624 — Unusually concentrated and economical dye retarder for Orlon.

DYSET #91 — Clear liquid dye fixative for direct colors. Resists soap washing when used with resins.

Write for Free Sample

APEX CHEMICAL CO., Inc.

Manufacturers of Chemicals Since 1900

200 South First St., Elizabethport 1, N. J.

Telephone: ELizabeth 4-5420

Heaters are inserted in refractories and packed in additional powdered refractory material to assure maximum heat transfer up to 600 F. The heaters are available in three-phase, 240, 480 and 550 volts.

Trent, Inc., 211 Leverington Ave., Philadelphia 27, Pa.

Do you want more data? Write supplier or use card on page 251; list K-225

Electric pallet low-lift trucks are fast operating and designed for use in narrow aisles. Called the Model PXG, the units will operate in six-foot aisles with 48" x 48" pallet loads—load stop to extreme front end measures only 24½". Pallet entry disks on fork ends give the effect of three added inches of roller diameter to help skim forks into pallet with ease. Total lift is four inches. Available in 4,000- and 6,000-lb capacities.

Barrett-Cravens Co., 628 Dundee Rd., Northbrook, Ill.

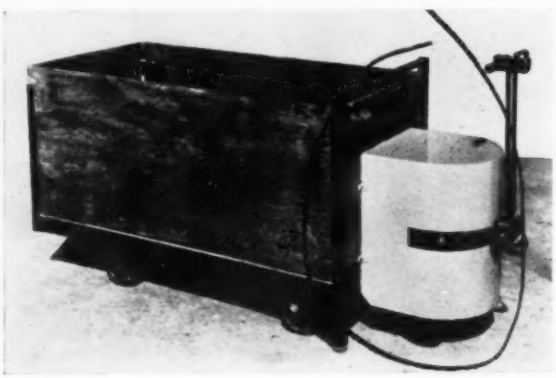
Do you want more data? Write supplier or use card on page 251; list K-226

Cleaning 20,000 sq ft of floor per hour is a normal task for the Model 26 battery-powered floor cleaning machine. It dispenses clean water, scrubs, and vacuums up the dirty water. The 24-volt batterypack can be changed in a few minutes when recharging is necessary. Equipped with a 10-gallon solution tank, a 22-gallon recovery tank, and having 26-inch brush spread, the machine has the squeegee assembly mounted at the rear in easy reach. It is also supplied with a hand squeegee for picking up water from hard-to-reach places such as corners, door jambs, etc.

S. C. Lawlor Co., 124 N. Aberdeen St., Chicago 7, Ill.

Do you want more data? Write supplier or use card on page 251; list K-227

A detachable battery-powered wheel propels hand trucks either singly or in fleets. Called the Powr-Wheel, the attachment can be permanently secured to a single truck or quickly coupled with a fleet of trucks. It provides forward, reverse, steering, and brake motions. The wheel carries only the weight of the propulsion unit and rides up and down freely to compensate for floor irregularities. Self-adjusting "deadman" brakes are applied normally and are released only when the motor is started. Other features include forward and reverse buttons on the steering handle and fluid drive.



Vanguard Engineering Co., 1908 East 66th St., Cleveland 3, Ohio.

Do you want more data? Write supplier or use card on page 251; list K-228

Two air-braking systems designed to provide smooth power stops and dependable control for heavy industrial equipment are available with 14" x 6" or 18" x 8" ex-

ternal shoe-type brake. One system is for making service stops only. The brake is applied by an air-actuated cylinder that incorporates a return spring for quick release. The second system is for both service stops and for parking and holding operations. In addition to the air actuated cylinder it incorporates a spring-applied, air-released parking cylinder.

Wagner Electric Corp., 6400 Plymouth Ave., Saint Louis 14, Mo.

Do you want more data? Write supplier or use card on page 251; list K-229

A series of humidifiers represents three models. The SF-10 and SW-5 incorporate centrifugal atomizers that produce fine water vapor without heat. Model SF-5 embodies an accordian filter feature that presents 620 sur-

face areas. This unit evaporates a gallon of water per hour, is simple to install, and requires no water and electrical equipment.

Walton Laboratories, Inc., 1186 Grove St., Irvington 11, N. J.

Do you want more data? Write supplier or use card on page 251; list K-230

High enertia loads are started with smaller motors in the expanded series of Flexidyne "dry-fluid" drives and couplings now available. The range of drives, extending from one-quarter horsepower to 1000 horsepower, includes four newcomers: (1) a 200-hp, 1200 rpm model suitable for V-belt or direct shaft-to-shaft use; (2) the 22CK, an 800-hp unit (coupling only) which accommodates a speed of 1200 rpm; (3) the 27CK, drive rated at 1000 hp at 900 rpm and fitted for couplings only; and (4) a 2hp, 1800 rpm unit designed for light duty.

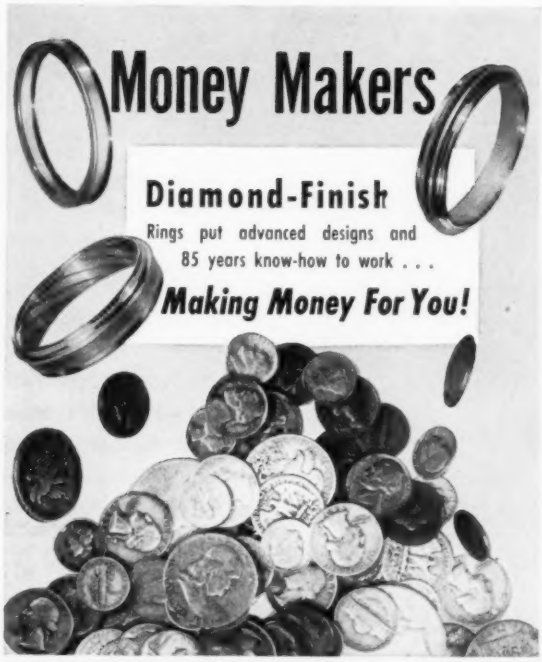
Dodge Mfg. Corp., 3500 Union St., Mishawaka, Ind.

Do you want more data? Write supplier or use card on page 251; list K-231

Storage racks for the textile industry can be constructed to meet practically any need without involved layout, precision hole drilling, welding, or riveting. The system involves custom-engineered metal framing that can be erected quickly and easily for any type of storage racks, work benches, tables, conveyors, etc. All can be designed by the user and be erected on the spot. The system consists of a metal channel with a continuous open slot down the middle of one side, a special spring-like clamping nut, and some 1400 fittings for framing and attachments.

Unistrut Products Co., 933 W. Washington Blvd., Chicago, Ill.

Do you want more data? Write supplier or use card on page 251; list K-232



WHITINSVILLE (MASS.)
SPINNING RING CO.
DIAMOND FINISH
Makers of Spinning and Twister Rings since 1873
Rep. for the Carolinas & Va.: W. K. SHIRLEY, P.O. Box 406, Belmont, N. C.

STATIC
STATIC
STATIC

IT'S GONE — IT DISAPPEARS with TAKK STATIC CONTROLS — Heavy duty construction for long life and trouble-free operation — greater savings with improved performance.

THE TAKK CORP.
NEWARK, OHIO P. O. BOX 346

INFORMATION CENTER

NEW The Automated MICRONAIRE

- Speeds up checking two to three times.
- Provides a quick, easy, accurate and authorative measure of fiber fineness.
- Indicates the quality and value of the cotton.
- Indicates the dyeing properties.
- Measures the maturity of cotton.
- Predicts the spin-ability of cotton.
- Forecasts the appearance of the yarn and cloth by indicating the number of neps to be expected.

For NEW Book "Advantages and World-Wide use of the Micronaire in all segments of the Cotton and Textile Industries"
Write to Dept. 29 —THE SHEFFIELD CORPORATION
Dayton 1, Ohio, U. S. A.

7515R

the SHEFFIELD corporation
of Bendix Aviation
manufacture and measurement for mankind

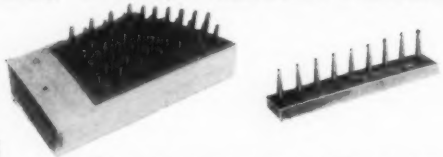
Sample-Cutting Pinking Machines
All Sizes — hand and power

From 6½" Portable Model to 50" Power Unit. Write Today For Full Information.

See us at Booth 359
Greenville Show

CHANDLER MACHINE COMPANY
234 West St., Ayer, Mass
Manufacturers of World Famous PLEATING MACHINES

PINS, LAGS, TENTER PLATES



SPECIAL PINS AND PIN ARRANGEMENTS FOR PROCESSING FIBERS

W. H. BAGSHAW CO., Inc.
Established 1870
60 PINE ST. NASHUA, N. H.

A 400-watt mercury lamp produces 28 per cent more light over its life span than present mercury lamps of the same size and wattage. It has a useful life in excess of 9000 hours. Completely interchangeable with the present 400-watt mercury, the new lamp is the same size, uses the same transformer, and fits into the same socket.

General Electric Co., Lamp Div., Nela Park, Cleveland 12, Ohio.

Do you want more data? Write supplier or use card on page 251; list K-233

A fork-lift clamping attachment for palletized or non-palletized loads, as well as for loads on skids and in bins, is made available on all L-S electric fork lift trucks. It is especially effective in handling bales or cases. The Master

Universal Clamp has a clamping range from 18" to 46" or 23" to 60", depending on the materials being handled.

Lewis-Shepard Products, Inc., Dept. R8-14, 125 Walnut St., Watertown 72, Mass.

Do you want more data? Write supplier or use card on page 251; list K-234

Flange cartridge ball bearing mounts are designed for mounting in a confined space. The housing flange has two bolts instead of four. They are self aligning in any position, have wide inner rings, and will accommodate shaft diameters ranging from ½" to 15/16". Equipped with a choice of two seals for keeping the lubricant in and contaminants out, the bearings are lubricated at the factory, and in most cases relubrication is not necessary.

The Fafnir Bearing Co., New Britain, Conn.

Do you want more data? Write supplier or use card on page 251; list K-235

High-pressure hydraulic cylinders (called the Powr-draulic Series) are rated at 2000 and 3000 psi nonshock hydraulic pressures and have a high safety factor. They have industry-standard mounting dimensions, conform to J. I. C. recommendations, are made in 13 basic mounting styles, and are available with a choice of rod sizes.

Hanna Engineering Works, 1765 Elston Ave., Chicago 22, Ill.

Do you want more data? Write supplier or use card on page 251; list K-236

A marking method that gives instant-drying, single-line imprints on boxes, cartons, envelopes, etc., permits handling, stacking, packing, etc., immediately following marking. The Model 105-10H uses a heated printing head and ink that is solid at room temperature and are available in 15 standard colors as well as special colors to match customer specification. Marking speeds run from 90 to 100 imprints per minute.

Markem Mch. Co., 150 Congress St., Keene 52, N. H.

Do you want more data? Write supplier or use card on page 251; list K-237

TI'S INFORMATION CENTER

BOOKLETS • NEW EQUIPMENT • ADVERTISEMENTS

Help yourself to free literature and more details on any product mentioned in this issue.

Instead of writing a dozen different manufacturers for free literature and more information on equipment, supplies, or services, just insert in the appropriate space provided on one of these postage-free cards the key numbers of the items in which you are interested, and drop the card in the nearest mail box. Use the cards also to get details on any advertisement—just insert the name of the company and page number in the space provided.

TI pays the postman!

OCTOBER, 1958

Send free information on these NEW PRODUCTS and/or services (fill in key numbers):

_____ _____ _____ _____ _____ _____

_____ _____ _____ _____ _____ _____

_____ _____ _____ _____ _____ _____

Send this FREE LITERATURE (fill in key numbers):

_____ _____ _____ _____ _____ _____

_____ _____ _____ _____ _____ _____

_____ _____ _____ _____ _____ _____

Send free information on these ADVERTISEMENTS:

Company _____ Page _____ Company _____ Page _____

Company _____ Page _____ Company _____ Page _____

My Name _____ Position _____

My Company's Name _____

Address (number and street) _____

City _____ Zone _____ State _____

OCTOBER, 1958

Send free information on these NEW PRODUCTS and/or services (fill in key numbers):

_____ _____ _____ _____ _____ _____

_____ _____ _____ _____ _____ _____

_____ _____ _____ _____ _____ _____

Send this FREE LITERATURE (fill in key numbers):

_____ _____ _____ _____ _____ _____

_____ _____ _____ _____ _____ _____

_____ _____ _____ _____ _____ _____

Send free information on these ADVERTISEMENTS:

Company _____ Page _____ Company _____ Page _____

Company _____ Page _____ Company _____ Page _____

My Name _____ Position _____

My Company's Name _____

Address (number and street) _____

City _____ Zone _____ State _____

These cards can help you get valuable information

Postage Will be Paid by Addressee

No Postage Stamp Necessary If Mailed in the United States

BUSINESS REPLY CARD
FIRST CLASS PERMIT NO. 582, SEC. 34.9, P. L. & R., ATLANTA, GA.

Textile Industries
806 PEACHTREE ST., N. E.
ATLANTA 8, GEORGIA

Postage Will be Paid by Addressee

No Postage Stamp Necessary If Mailed in the United States

BUSINESS REPLY CARD
FIRST CLASS PERMIT NO. 582, SEC. 34.9, P. L. & R., ATLANTA, GA.

Textile Industries
806 PEACHTREE ST., N. E.
ATLANTA 8, GEORGIA

City _____ Zone _____ State _____

HELPFUL BOOKLETS FREE!

10-1 FACTS ON NON-WOVENS. Fact file on non-wovens tells of new machinery, new methods of handling fibers, new bonding agents, etc. Curlator Corporation, Textile Div., E. Rochester, N. Y.

10-2 CATIONIC DYE LEVELER. Bulletin TX-34 gives new information on dye leveler for acid colors on nylon tricot and wool through use of Nopco 1425-B. Nopco Chemical Co., Textile Chemicals Div., Harrison, N. J.

10-3 VARIABLE SPEED DRIVES. New Booklet describes Reliance V-S Drives, with explanation as to how they provide precise, adjustable machine speeds from in-plant A-C Circuits. Reliance Electric & Engineering Co., 24701 Euclid Ave., Cleveland 17, Ohio.

10-4 POLYETHYLENE FINISHING AGENT. Booklet contains information needed to adopt Emulsifiable A-C polyethylene as a finishing agent to any particular process. Solvay Petrochemical Div., Allied Chemical Corp., 5th Floor T, 40 Rector Street, New York 6, N. Y.

10-5 HIGH ACTIVITY CATALYST. Technical Bulletin describes new catalyst AC-6 which provides increased activity, excellent bath life, minimum odor formation, etc. Monsanto Chemical Co., Plastics Div., Springfield, Mass.

10-6 RECONDITION OPENING & CLEANING Bulletin gives whys and wherefores of reconditioning your opening and cleaning lines. Special attention given to each machine with suggestions as to parts replacement. Saco-Lowell Shops, 60 Batterymarch St., Boston 10, Mass.

10-7 AUTOMATIC DELIVERY MACHINES. Brochure describes how Bramwell Automatic Delivery machines can reduce manual handling and operating costs while increasing productivity. Geo. S. Harwood & Son, 50 LaGrange St., Worcester 8, Mass.

10-8 OFFICE COPYING MACHINES Booklet is prepared as a factual guide in the selection of office copying machines, giving principal reasons for this growing use. Copease Corp., 425 Park Ave., New York 22, N. Y.

10-9 TOOL FOR SETTING TRAVELLERS. Bulletin on special tool for setting-on C-shaped ring travellers. Tells how traveller losses may be reduced up to 30%. Gubelin International Corp., P. O. Box 305, Mount Kisco, N. Y.

10-11 CONTROLS FOR HEATING, AIR-CONDITIONING. Catalog describes and illustrates line of automatic controls for heating, ventilating and air conditioning control systems. Barber Colman Co., Rockford, Ill.

10-12 INDUSTRIAL SOUND DETECTOR. A portable sound detector that locates small, internal defects in moving machinery without shutting down is the subject of brochure. Jenkins Metal Shops, Inc., P. O. Box 1160, Gastonia, N. C.

10-13 LOOM REBUILDING. Bulletin describes overhauling, narrowing, widening, modernizing to assure new loom performance. Yeoman's Textile Machinery Co., P. O. Box 1661, Spartanburg, South Carolina.

10-14 RING SPINNING FRAME. Folder presents description, illustrations and specifications of up-to-date Simplex ring spinning frames. Davis & Furber Machine Co., North Andover, Mass.

10-15 GRAY IRON CASTINGS. Information on complete line of gray iron castings and famous GOLDEN-FAFNIR bearings. Golden's Foundry, 600 12th Street, Columbus, Ga.

10-16 REDUCE WEAVING SECONDS. Information on how "Lintgo," a special compound used in blowing-off, can sharply reduce your weaving seconds. Lester Laboratories, P. O. Box 4897, Atlanta, Georgia.

10-17 SIZE THAT SATISFIES. Information on getting the correct size package for your mill. Also on Bingham line of slasher rolls. Stoghill & Co., 716 Ponce de Leon Place, Atlanta, Georgia.

10-18 NEW "MARATHON" RING. Information on ring of radical new design incorporating circulating oil bath with reservoir and assuring no throwing of oil. Ragan Ring Co., P. O. Box 174, Seation A, Atlanta 1, Georgia.

HELPFUL BOOKLETS FREE!

OPENING THROUGH ROVING

R-1 Lummus Pepper-Shaker Opener —Gives complete details and photographs Aldrich Machine Works, P. O. Box 750, Atlanta, Ga.

R-2 Static Elimination — How to eliminate static safely and inexpensively. Simco Co., 920 Walnut St., Lansdale, Pa.

R-3 Card Grinding Information — Care and operation of cards. B. S. Roy & Son Co., Worcester, Mass.

R-4 Card Clothing — Describes Strip-O-Matic Card Clothing. Benjamin Booth Co., Allegheny Ave. & Janney St., Philadelphia, Pa.

R-5 Versa-Matic Drawing Frame — Describes drafting elements, quality of sliver, roving and yarn possible. Saco-Lowell Shops, 60 Batterymarch St., Boston, Mass.

R-6 Sargent Opener—Describes opener with rotary evener and stripper. C. G. Sargent's Sons Corp., Graniteville, Mass.

R-7 Ball Bearing Comb Boxes — Describes working principle, shows cut-away Views, Southern States Equipment Corp., Hampton, Georgia.

R-8 Feathertouch Drafting — Describes "highest production per frame at lowest cost." Ideal Industries, Inc., Bessemer City, N. C.

R-9 Automatic Weighing Feeders — Tandem Weighing Feeder produces webs, mats and felts of continuing accuracy. W. D. Dodenhoff Co., Inc., Box 178, Greenville, S. C.

R-11 Flexidyne Individual Card Drive—Describes operating principles, includes prices. Dodge Mfg. Co., Mishawaka, Indiana.

R-12 Bobbins — Catalog describes metal, wood and plastic bobbins. Illustrations show actual use. Lestershire Spool Div., National Vulcanized Fiber Co., Johnson City, N. Y.

R-14 Pneumastop For Fly Frames—Brochure shows type of installation and method of operation. Pneumafil Corp., Charlotte 8, N. C.

R-15 Advantages of Aldrich Pickers —Good technical text, comprehensive pictures. Aldrich Machine Works, P. O. Box 750, Atlanta, Ga.

R-16 Universal Card Coiler—Gives 12 reasons why it's "the best," includes dimensions. McDonough Power Equipment, Inc., McDonough, Ga.

R-17 New Condenser Tape — Describes Supr-O-Tape an impregnated fabric condenser tape. Benjamin Booth Co., Allegheny Ave. & Janney St., Philadelphia 34, Pa.

R-18 Coilers and Conversions — Describes new complete coilers and conversions for cards. Southern States Equipment Corp., Hampton, Ga.

R-19 84" Woolen Card — Includes picture, floor plan, description, and technical details. Davis & Furber Machine Co., North Andover, Mass.

R-20 SRRL Opener—Cleaner—Information on new SRRL development for opening and cleaning cotton being manufactured for sale to mills by Davidson-Kennedy Co., 1090 Jefferson St., N. W., Atlanta, Ga.

SPINNING—TWISTING—WINDING—SPOOLING—WARPING—THROWING

R-101 Spinning News — Up-to-the minute news on spinning equipment. Roberts Co., Sanford, N. C.

R-103 Products For Spinning and Weaving—Complete line, applications, advantages shown. Dayton Rubber Co., Textile Div., Dayton, Ohio.

R-104 New Bobbin Manual — Only complete, authoritative bobbin guide in the industry. Write direct to Dept. DD, Lestershire Spool Division. National Vulcanized Fibre Co., Wilmington 99, Delaware.

R-105 Spindle Oil — "Gulfspin" insures against excessive wear and eliminates spindle wobble. Gulf Oil Corp., Gulf Bldg., Pittsburgh, Pa.

R-106 ANTI-STATIC AGENT. Data sheet lists basic characteristics of liquid anti-static agent which eliminates processing difficulties with fibers due to static electricity. E. F. Houghton, 303 West Lehigh Ave., Philadelphia 33, Pa.

R-108 High Speed Automatic Quiller —Lists advantages and dimensions of "Autocopser." Terrell Machine Co., Inc., P. O. Box 928, Charlotte, N. C.

R-110 Stop Frame On Roving Failure—Adamstop instantly detects roving failures, stops frame. Adams, Inc., 209 East Stone Ave., Greenville, S. C.

R-111 Automatic Cop Winder—Tells how high production with less labor is possible. F. A. Lazenby Co. 3106 Elm Ave., Baltimore 11, Md.

R-112 Bahnson Packaged Modernization—Details on Collecto-Vac, Open-Aire Creels, Cross-Jet Cleaner, Air Conditioning. Bahnson Company, Winston-Salem, N. C.

R-113 Sectional Warper — Describes full width and sectional warpers for knitting, weaving. Robert Reiner, Inc., Weehawken, New Jersey.

R-114 Conical Rings and Flyers — Complete details and specifications. Herr Manufacturing Co., Inc., 318 Franklin St., Buffalo 2, New York.

R-115 Precise Winding Machine — For winding pineapple or straight cones and tubes of synthetics. Foster Machine Co., Westfield, Mass.

R-116 Automatic Cleaning Equipment—Working details and advantages of the Tri-Rail Cleaner. American Monorail Co., 13107 Athens Ave., Cleveland 7, Ohio.

R-117 Aluminum Section Beams — Lists advantages, includes prices and delivery schedules. Hayes Industries, Inc., Jackson, Mich.

R-118 Lubricants For Textiles — Samples of Ben Boy Bearing, Spindle, Twister Lubricants and Non-Melting Oils. Georgia-Carolina Oil Co., Box 101, Macon, Ga.

R-119 Custom Made Thread Guides—Includes composition, properties, specifications of all designs. American Lava Corporation Chattanooga 5, Tenn.

R-120 Spinning Frame Conversions—Big-package, new-frame results at half the cost. Meadows Mfg. Co., Station A., Atlanta, Ga.

R-121 Collecto-Vac — New development collects lint, fly and broken ends. The Bahnson Company, Winston-Salem, N. C.

R-122 Static Eliminator For Warpers-Slashers-Creels—Increased production, improved quality, reduced waste. The Portland Co., 22 Fore St., Portland, Maine.

R-123 Spinning and Twister Rings — Complete details, pictures, price lists. Whitinsville Spinning Ring Co., Whitinsville, Mass.

R-125 Lint-Free Creel—Complete details and pictures of the new Airfoil Design. Pneumafil Corporation, Charlotte 8, N. C.

R-126 Gear Bulletins — Cover products and gears for the complete textile mill. Precision Gear & Machine Co., 2001 N. Tryon St., Charlotte 2, N. C.

R-128 Suction Cleaning System—Details on new Collector Unit Model C-4. Pneumafil Corp., Charlotte 8, N. C.

R-129 Facts About Your Flyers and Spindles—Advantages of smooth flyer and spindle operation. Ideal Machine Shops Bessemer City, N. C.

R-132 Traveling Cleaners—Describes improved frame and room cleaners. Parks-Cramer Co., Fitchburg, Mass.

R-133 Lapless Endless Spinner—Full information available. Ton Tex Corporation, 31 Columbus Ave., Englewood, N. J.

(Continued Next Page)

#1 of a series. . . . . .

caprolan®
TEXTURED YARN SEMINAR

TEXTURED FILAMENT YARNS VS SPUN YARNS

Are you considering the use of textured filament yarns? Good! You'll be pleased with the results if you keep this important fact in mind:

FACT: Textured Filament Yarns And Spun Yarns Are Not The Same

You see, textured filament yarns are precision yarns. Creeling methods, tensioning devices, tensions, guides, yarn carriers, cutting edges, dyeing and finishing are critical areas which must be given special attention for maximum success. The reason is simple:

Products made from textured filament yarns are dramatically different;

Textured filament yarns are different;

Therefore, different methods of handling textured filament yarns are required.

You'll find the adjustments necessary for handling textured filament yarns simple—the results unbelievably rewarding. So why not let us get you off to a good start in the use of Textured Caprolan* in your product lines? Our technical service, end-use development and fiber application staffs are available to help you . . . any time.

Fiber Sales and Service Allied Chemical *National Aniline Division*
261 Madison Avenue, New York 16, N. Y.

**Trade Mark—Allied Chemical's polyamide fiber*

HELPFUL BOOKLETS FREE!

R-135 Worsted Spinning — Describes five stages from top to yarn. Saco-Lowell Shops, 60 Batterymarch St., Boston 10, Mass.

R-139 Spindle Oiling Machine—Features and advantages noted. Wicaco Machine Corp., 4800 Stenton Ave., Wayne Junction, Philadelphia 44, Pa.

R-141 Handy Spinning Reference — Shows traveler speeds, sizes of ring flanges. Victor Ring Traveler Co., Providence, R. I. and Gastonia, N. C.

R-142 Unirail Uptwister — Higher yarn quality and better packages at faster speeds. Universal Winding Co., P. O. Box 1605, Providence, R. I.

R-144 Precision Textile Winding — Tensions and Density Control for winding rubber cones. Kidde Mfg. Co., 35 Farrand St., Bloomfield, N. J.

R-145 Roller Bearing Spindles — Pictured in cut-away views, advantages described. The Marquette Metal Products Co., 1145 Glenwood Ave., Cleveland, Ohio.

R-146 Cone Winder—Describes Model 102 winder, including applications. Foster Machine Co., Westfield, Mass.

R-147 Short Cut To Staple Fiber Spinning—Ten steps in operation of the Tow Stapler. Turbo Machine Co., Lansdale, Pa.

R-148 Weaver's Knotter — Instructions as to use, description. A. B. Carter, Inc., Gastonia, N. C.

R-149 Textile Roll Coverings — Describes complete line as well as other mill supplies. Armstrong Cork Co., Industrial Div., Lancaster, Pa.

R-150 Lint-Free Motor — Describes motor for constant speed a-c driven pickers, roving frames, spinning and twisting frames, etc. Westinghouse Electric Corp., P. O. Box 2278, Pittsburgh 30, Pa.

R-151 Tape For Driving Spindles — Describes banding for spindle drives on twisting, roving and spinning. Benjamin Booth Co., Allegheny Ave. & Janney St., Philadelphia 34, Pa.

R-152 Giant Aluminum Cotton Beams —Describes 38 x 54" section beams for cotton. Hayes Industries, Inc., Jackson, Mich.

R-153 Woolen Spinning Frame — Colored picture, complete details Davis & Furber Machine Co., North Andover, Mass.

R-154 Large Package Twister—Information on new anti-friction Jumbo Twister which carries a 14" bobbin with a 12" build. Meadows Mfg. Co., P. O. Box 4354, Atlanta, Ga.

R-155 Wide Setover Pin Drafter — Booklet describes advantages, technical aspects, adaptments of wide setover Pin Drafter. Warner & Swasey Co., 5701 Carnegie Ave., Cleveland 3, Ohio.

SLASHING—WEAVING—CLOTH ROOM—TUFTING

R-201 Looms — Describes "World's Largest Line of Looms." Crompton & Knowles Loom Works, Worcester 1 Mass.

R-202 Counting And Measuring Devices—Wide range of counting devices for all types of textile machinery Veeder-Root, Inc., Hartford, Conn.

R-203 Loom Supplies — Describes complete line. E. H. Jacobs Northern Division, The Bullard Clark Co., Danielson, Conn.

R-204 Innovation In Textile Drying—Details on Steam or Gas "Hot Air" Slasher. J. O. Ross Engineering Corp., 444 Madison Ave., New York 22, New York.

R-206 Loom Production Charts — Celluloid card shows yards per loom per week. Ralph E. Loper Co., Greenville, S. C.

R-207 Aluminum Beams—Describes lightweight beams for textiles, Hayes Industries, Inc., Jackson, Mich.

R-208 The Story Of Starches — History and information on manufacture and use of starches. National Starch Products, Inc., 750 Third Ave., New York 17, N. Y.

R-209 Loading System — Pneumatic loading system for Saco-Lowell slasher. The Foxboro Company, Foxboro, Mass.

R-211 Steel Warp Beams—Beams for both broadloom and narrow fabrics. Milton Machine Works, Inc., Milton, Pa.

R-212 Penford Gums In Textiles — Describes excellent properties for warp sizing spun yarns. Penick & Ford Ltd., Inc., 420 Lexington Ave., New York 17, New York.

R-213 Saco-Lowell Positrol Slasher—Includes advantages, photographs, cutaway drawings. Saco-Lowell Shops, 60 Batterymarch St., Boston 10, Mass.

R-214 Rotary Unions—Cut costs, get better sealing on can dryers. Perfecting Service Company, 332 Atando Ave., Charlotte, N. C.

R-216 Air Slasher Dryer — Shows construction and operating details. Proctor & Schwartz, Inc., 7th St. and Tabor Rd., Philadelphia 20, Pa.

R-217 Butt-Tacking Sewing Machine —Describes operation, installation of single thread butt-tacking sewing machine. The Merrow Machine Co., 28 Laurel St., Hartford, Conn.

R-218 Loom Reed Booklet — Describes in detail a variety of reeds. Steel Heddle Mfg. Co., 2100 West Allegheny Ave., Philadelphia 32, Pa.

R-219 Cocker Equipment—Information on warp sizer, beam warper, creels. tensions, back-winders, etc. Cocker Machine & Foundry Co., Gastonia, N. C.

R-220 Chemical Data Sheets—Available on a full range of chemicals. Nopco Chemical Co., Harrison, N. J.

R-223 Tufting Machines — Describes automatic pattern attachment. Cobble Bros. Machinery Co., Inc., River Road, Chattanooga, Tenn.

R-226 Prevent Fabric Distortion — How to eliminate distortion and where to check for it. Mount Hope Machinery Co., 15 Fifth St., Taunton, Mass.

R-227 Formulas For Slashing Arnel —Includes also information on warping, weaving and quilling. Textile Sales Dept., Celanese Corp. of America, P. O. Box 1414, Charlotte 1, N. C.

R-228 The Random Web Process — Describes the Rando-Webber and Rando-Feeder. Bulletin 105. Curlator Corp., Textile Div., 501 W. Commercial St., Rochester, N. Y.

R-230 ECLIPSE STARCHES FOR TEXTILES. Data sheet describes use of thin-boiling starches in the textile industry, with particular emphasis on warp sizing. Physical and chemical data included. A. E. Staley Mfg. Co., Decatur, Ill.

R-232 Hydraulic Slasher Drives — Bulletin 5571 describes economical approach to improved slasher operation. Vickers, Inc., 1036 Peachtree St., Atlanta, Ga.

R-233 Textile Accessories — Gives specifications of Gates textile accessories in handy pocket booklet. The Gates Rubber Co., 1001 Broadway, Denver 17, Colorado.

R-234 Cocker Slashers — Complete specifications and advantages, including allied equipment. Cocker Machine & Foundry Co., Gastonia, N. C.

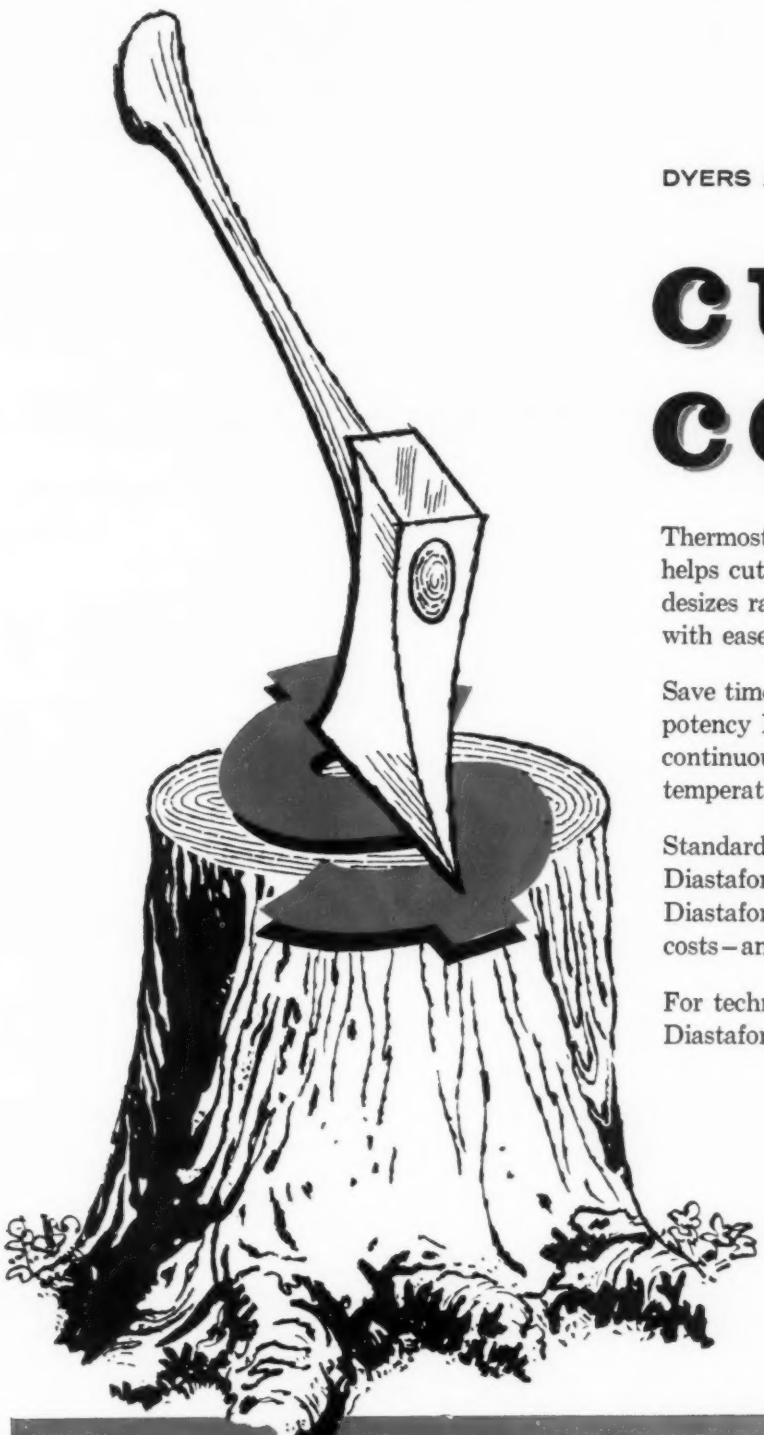
R-235 Mounts For Looms — Vinyl mount eliminates need for bolts or paste. Clark, Cutler, McDermott Co., 106 W. Central St., Franklin, Mass.

R-236 Unifil Loom Winder — Describes new concept of filling preparation which needs no quilling area. Universal Winding Co., P. O. Box 1605, Providence, R. I.

R-237 High Speed Warp Sizer—Gives outstanding features and specifications. Cocker Machine & Foundry Co., Gastonia, N. C.

R-238 Traveling Loom Cleaner—Advantages of the new Oscillaire loom cleaner. Parks-Cramer Co., Fitchburg, Mass.

(Continued Next Page)



DYERS AND FINISHERS

cut costs

Thermostable Diastafor desizing agent helps cut your production costs—desizes rapidly and efficiently—dilutes with ease—saves storage space.

Save time—save cost. New high potency Diastafor LCD desizes fast in continuous process operations at high temperatures up to 180°-200° F.

Standardize on high quality with Diastafor. A good prepare with Diastafor means time saved, lower costs—and a finer finish.

For technical information, address: Diastafor Department.

with **DIASTAFOR®** *desizing agent*

STANDARD BRANDS INCORPORATED • 625 MADISON AVENUE • NEW YORK 22, N. Y.

HELPFUL BOOKLETS FREE!

R-239 Draper Repair Parts Catalog —Contains illustrations covering all mechanisms and construction with complete listings. Draper Corporation, Hopedale, Mass.

R-240 Baling Presses — Describes complete line of motor-driven and hydraulic baling presses. Logemann Brothers Co., 3150 West Burleigh St., Milwaukee, Wis.

R-241 Textile Machinery Parts Catalog — Describes complete line of Dayco and Thorobred textile parts. Dayton Rubber Co., Dayton, Ohio.

R-242 Instruments For Accuracy. — Systems for sizing and slashing. Bulletin 98229, Taylor Instrument Co., Rochester, N. Y.

R-243 Counting Devices — Describes complete line of of counters for every application. Trumeter Company, 38 W. 32nd St., New York 1, New York.

R-244 Squirrel-Cage Loom Motor — Describes totally enclosed, non-ventilated, constant-speed motors. Westinghouse Electric Co., P. O. Box 2278, Pittsburgh 30, Pa.

R-245 Static Bars — Humorously illustrates how static can be overcome. The Simco Co., 920 Walnut St., Lansdale, Pa.

R-246 Care Of Draper Shuttles — Describes how longer, troublefree service may be obtained. Draper Corporation, Hopedale, Mass.

R-247 Clutch Brake Motor For Draper Looms — Describes compact power package for driving Draper looms. Westinghouse Electric Corp., P. O. Box 2278, Pittsburgh 30, Pa.

R-250 Bulk Handling of Starch—Bulletin surveys advantages and disadvantages of a bulk system for starch. It describes the types of equipment available for each component and gives estimates of costs. A. E. Staley Mfg. Co., Box 151, Decatur, Ill.

R-251 Small Pilot Slasher — Information on new all-electric Callaway Slasher. Ideal for mills which must prepare a lot of samples. West Point Foundry & Machine Co., West Point, Georgia.

R-252 Weaving Machines — Textile job report No. 20 on Warner & Swasey Sulzer weaving machines at Yale Woolen Mills. Warner & Swasey, 5701 Carnegie Ave., Cleveland 3, Ohio.

R-253 One-Piece Sizing Agent — Houghto-Size CW provides low kettle cost, results in free-running warp of high breaking strength, increasing weaving efficiency. E. F. Houghton & Co., 303 West Lehigh Ave., Philadelphia 33, Pa.

R-254 Lubricant for Synthetics — Booklet illustrates Fibregard, a colloidal lubricant that adheres uniformly and continuously to the surfaces of man-made fibers. Harry Miller Corp., 4th and Bristol Sts., Philadelphia 40, Pa.

KNITTING

R-301 Singlehead Full-Fashioned Machine — Literature on request from the Wildman Jacquard Mfg. Co., Full Fashioned Div., Norristown, Pa.

R-302 Forged Head Aluminum Beams — Gives specifications on new high yardage beams. Milton Machine Works, Inc., Milton, Pa.

R-303 Raschel Knitter — Describes new Raschel-type knitting machine. Kidde Manufacturing Co., Inc., 35 Farrand St., Bloomfield, N. J.

R-304 Vibralon For Hosiery—Greater snag resistance, dullness, warmth and absorbency. W. F. Fancourt Co., 519 S. Delaware Ave., Philadelphia 47, Pa.

R-306 Booklets On Fidelity Machines — Details on "400", Multi-Design Ribber, Skein Reelers. Fidelity Machine Co., 3908-18 Frankford Ave., Philadelphia 24, Pa.

R-307 Needle Oil Does Not Stain — Details on "Gulftex 39" developed for knitting mills. Gulf Oil Corp., P. O. Box 1106, Pittsburgh 30, Pa.

DYEING—BLEACHING—FINISHING—PRINTING

R-401 Solvent Detergents — Capabilities and advantages noted. Oakite Products, Inc., 126C Rector St., New York, N. Y.

R-402 Tubes For Package Dyeing — Describes Dytex tubes for one-time use. Sonoco Products Co., Hartsville, S. C.

R-403 Finishing Machinery — Text and photographs of complete line of machinery. Marshall and Williams Corp., 46 Baker St., Providence, R. I.

R-404 Water Analysis — Includes tables, conversion factors, indicators, standard solutions. Solvay Process Div., Allied Chemical & Dye Corp., 61 Broadway, New York 6, N. Y.

R-406 Urea, Formaldehyde.—Literature on urea, formaldehyde or U.F. concentrate-85. Dept. CUFI-29-1, Nitrogen Div., Allied Chemical and Dye Corp., 40 Rector St., New York 6, New York.

R-407 Acid Mordant Blue B—Details on Acid Alizarine Blue B for bright navy shades. Zinsser & Co., Inc., Hastings on Hudson 6, New York.

R-408 Hydrogen Peroxide — Covers properties, uses and handling. Solvay Process Div., Allied Chemical & Dye Corp., 61 Broadway, New York 6, N. Y.

R-412 Cationic Surface Active Agent — Describes Uversoft "D." Harshaw Chemical Co., 1945 East 97th St., Cleveland 6, Ohio.

R-413 Chemicals, Dyes And Intermediates — Complete file of bulletins available. Metro-Atlantic, Inc., Centredale, R. I.

R-414 Wetting Agent — Describes highly concentrated detergent and wetting agent. Rohm & Haas Co., Washington Square, Philadelphia, Pa.

R-415 Peroxide Bleaching System — Illustrates and describes this continuous system. E. I. du Pont de Nemours & Co., Electrochemical Dept. T.I-2, Wilmington, Del.

R-416 Surface Tension Depressant — Tells how product can be used for wetting, dye leveling or as a penetrant. Hart Products Corp., 1440 Broadway, New York, N. Y.

R-417 Textile Chemicals — Describes leading products for wet processers. Royce Chemical Co., Carlton Hill, N. J.

R-418 Industrial Water Treatment — Discusses fundamentals of industrial water treatment. Rohm & Haas Co., Resinous Products Div., Washington Square, Philadelphia 5, Pa.

R-419 Theoretical and Applied Silk Soaking — Outlines methods and gives suggestions. Hart Products Corp., 1440 Broadway, New York 18, New York.

R-420 Brine For Textile Industry — Describes Lixate Process for making brine. International Salt Co., Inc., Scranton, Pa.

R-421 Depuma — Describes odorless, viscous, non-evaporating emulsion for anti-foam. Koppers Co., Inc., Chemicals & Dyestuffs Div., 2010 Clarke Bldg., Pittsburgh 19, Pa.

R-422 Catalyst AC-6 — Tells how curing efficiency may be stepped up as much as 25%. Monsanto Chemical Co., Plastic Division, Dept. T1-3, Springfield 2, Ohio.

R-423 Soda Ash Bulletin — Contains useful data covering this subject. Solvay Sales Division Allied Chemical & Dye Corp., 40 Rector St., New York 6, New York.

R-424 Water Repellent Finish — Describes Aquarol water repellent finish. Arkansas Co., Inc., Newark, N. J.

R-426 Industrial Oil — Catalogs on Industrial Oil and Fatty Acid products. Swift & Company, Industrial Oil Dept., 1800 165th St., Hammond, Indiana.

R-428 Chemical Catalog — Lists products with chemical composition, properties and applications. Antara Chemicals Div., General Aniline & Film Corp., 435 Hudson St., New York 14, New York.

R-429 Chemical Bulletins — Issued each month as a help to wet processers. WICA Chemicals, Inc., P. O. Box 506, Charlotte, N. C.

R-430 Hydraulic Power Units — Describes unit for operating hydraulic textile machines. B. F. Perkins & Son, Inc., Holyoke, Mass.

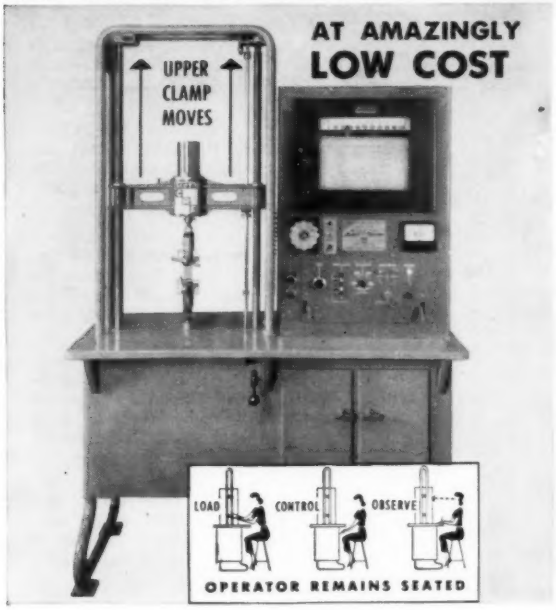
(Continued Next Page)

Announcing to the Textile Industry, the...

COMPLETELY NEW **SCOTT CRE**

CONSTANT RATE-OF-EXTENSION TENSILE TESTER FOR HIGH- AND LOW-ELONGATION MATERIALS

AT AMAZINGLY LOW COST



Here is highest-known precision in a tensile tester—at LOW COST never before possible!

1. Permits use of all the Scott clamps and holding fixtures for conformance with ASTM, ISO, Govt. and Industry methods from 0-.05 lb. to 0-1,000 lbs. or 0-25 grams to 0-500 kgs. tensile: yarn, skein, cord, fabric, webbing, laminates, rubber thread, etc., for tensile, tear, burst, adhesion.
2. Crosshead travel up to 70".
3. Infinite variety of specimen extension speeds up to 20"/min. with high-speed return.
4. 5 selective capacities, variable if desired by pushbutton during test.
5. Widely variable recorder registration speeds.

Producing stress-strain information by the most precise electric weighing method known to science, the CRE Tester can be tailored to fit your production routine at SURPRISINGLY LOW COST . . . or equipped with your choice of optional additions for laboratory versatility.

REQUEST NEW "CRE BROCHURE"

SCOTT TESTERS, INC.

60 Blackstone St., Providence, R. I.

Representatives in Foreign Countries

Selecting a source for soda ash?

HINT: CHECK THE REPUTATION FOR SERVICE

...then call Wyandotte

For pure, uniform soda ash, quality controlled every step of the way—select *Wyandotte Soda Ash*. It's available in several grades, and every grade tests 58% sodium oxide—or better!

Use Wyandotte Soda Ash for kier boiling or scouring, as a water-softening agent, emulsifier, casein solvent, or for alkalinity control of wool, cotton and the synthetics.

Our expert staff is available to show you how to best apply Wyandotte Soda Ash to save you time and increase your production efficiency. And you get prompt on-schedule delivery, too, thanks to strategically located plants and distributor stocks. Call our nearest office for full data, or write: *Section TI, Wyandotte Chemicals Corporation, Wyandotte, Michigan. Offices in principal cities.*

Wyandotte CHEMICALS

MICHIGAN ALKALI DIVISION

HELPFUL BOOKLETS FREE!

R-431 Proctor Drying Machinery — Describes all types of dryers, includes information on preboarding. Proctor & Schwartz., Inc., 7th and Tabor Rd., Philadelphia, Pa.

R-433 Safe Handling Of Hydrogen Peroxide — Lists safety rules to be followed in handling the product. Solvay Process Division, Allied Chemical & Dye Corp., 61 Broadway, New York 6, N. Y.

R-434 Base Detergent Acids—Bulletin tells how new TENN-ACIDS offer simple and practical method for mills to prepare concentrated, low cloud point detergents based on alkyl aryl sulfonates. Tennessee Corp., Marketing Research & Development Dept., 1330 W. Peachtree St., Atlanta 9, Ga.

R-435 Cut Water Treatment Costs — Describes the control of scale, slime, algae and corrosion. Oakite Products, Inc., 126C Rector St., New York 6, New York.

R-436 Rapidase For De-Sizing — The properties and characteristics of Rapidase in detail. Wallerstein Co., Inc., 180 Madison Avenue, New York 16, N. Y.

R-437 Caustic Soda—Book describes the uses, manufacturing processes, unloading and dissolving diagrams, materials of construction, analytical processes, etc. Wyandotte Chemicals Corporation, Michigan Alkali Division, Wyandotte, Michigan.

R-438 Surface-Active Agent — Properties, applications, of Nonionic Actylphenoxyethanol Triton. Rohm & Haas Co., Special Products Dept., Washington Square, Philadelphia, Pa.

R-440 Guiders And Tension Devices — Straight line guiding of open width goods. Mount Hope Machinery Co., 15 Fifth St., Taunton, Mass.

R-441 Processing Arnel Fabrics and Blends — Formulas for dyeing, printing, finishing and heat treating. Celanese Corp. of America, Textile Div., Marketing Dept., Box 1414, Charlotte, N. C.

R-442 Hycar Latices — Physical properties and typical fields of application. B. F. Goodrich Chemical Co.,

R-443 Sodium Hydrosulfite — Literature and test samples are available on "T-C Hydro." Tennessee Corp., 617-629 Grant Bldg., Atlanta, Ga.

R-445 New Finishing Rolls — Money-saving facts about long-wearing, quality rolls. The Dayton Rubber Co., Holfast Div., 1486 Lakewood Ave., Atlanta, Ga.

R-446 Ethanolamines — Lists application, chemical and physical properties. Nitrogen Division, Allied Chemical and Dye Corp., 40 Rector St., New York 6, New York.

R-447 Nappers For Treating Any Fabrics — Complete details on Muller Tri-Napping Machine. Franz Muller, Monchen-Gladbach, Germany.

R-448 Ball Bearing Turn Table — Describes 48-inch steel turn table for mills. Birch Brothers, Inc., 32 Kent St., Somerville, Mass.

R-449 Rotary Dyeing Machine—For use in dyeing hosiery, hats, gloves, socks, etc. Turbo Machine Co., Lansdale, Pa.

R-452 Micro Switch For Wet Process — Advantages and applications in dyeing, bleaching, finishing. Micro Switch Div., Minneapolis-Honeywell Regulator Co., Freeport, Ill.

R-453 Complete Line Of Mathieson Chemicals — Covers organic, inorganic, specialty chemicals. Olin Mathieson Chemical Co., Industrial Chemicals Div., Baltimore 3, Md.

R-455 Aligning Lays—Setting instructions for step-by-step aligning. Draper Corporation, Hopedale, Mass.

R-456 Dyeing and Finishing Machinery — Complete line presented in series of catalogs. Birch Brothers, Inc., 32 Kent St., Somerville 43, Mass.

R-457 Dyeing, Bleaching and Drying Equipment — Complete line for cotton, wool and synthetics described. Color pictures. Morton Machine Works, 1718 3rd Ave., Columbus, Ga.

R-458 Napthol Ratios Slide Chart — Quickly and accurately enables operators to determine Napthol Ratios. Aliance Color & Chemical Co., 33 Ave. P, Newark 5, New Jersey.

R-459 "PCB" Rock Salt — Tells how product saves money, eliminates bad dyeing. Morton Salt Co., Industrial Division, 120 So. LaSalle St., Chicago 3, Ill.

R-461 Wool Oils—Describes influence of wool oils in producing suality yarns and fabrics. Proctor & Gamble Dist. Co., Gwynne Bldg., Cincinnati, Ohio

R-462 Bleaching With Peroxygen Chemicals — Bleaching methods comprehensively treated. Becco Chemical Div., Food Machinery & Chemical Corp., Station B, Buffalo 7, New York.

R-464 Automatic Control System For Continuous Bleaching — How to control temperature, pressure and liquid level. Taylor Instrument Companies, Rochester 1, New York.

R-466 Penford Finishing Gums — Complete data, including physical properties. Penick & Ford Ltd., Inc., 420 Lexington Ave., New York 17, New York.

R-467 Regeneration Of Zeolite Water Softeners — Explains advantages of Lixate Process. International Salt Co., Scranton, Pennsylvania.

R-468 Dyeing Synthetic Fibers—Detailed analysis of methods and materials. General Dyestuff Co., 435 Hudson St., New York 14, New York.

R-469 Single Apron Stock Dryers — Presents latest idea in automatic drying. C. G. Sargent's Sons Corp., Graniteville, Mass.

R-470 Eliminate Dye-Bath Shock — How to protect fabrics from crow's-feet, uneven shades. Foxboro Company, 487 Neponset Ave., Foxboro, Mass.

R-474 Industrial Brushes — Features use on shears, printing machines. M. W. Jenkins' Sons, Inc., 444 Pompton Ave., Cedar Grove, N. J.

R-475 Waste Heat Recovery — Describes system of waste heat recovery from polluted water. Ludell Mfg. Company, 5200 West State Street, Milwaukee, Wis.

R-476 Washers For Scouring, Bleaching, Acidifying — Describes high-capacity, continuous process washers. C. G. Sargent's Sons Corp., Graniteville, Mass.

R-478 Wool Cleaning Unit—Describes unit for cleaning carpet wools mechanically before scouring. Proctor & Schwartz, Inc., 7th St. and Tabor Rd., Philadelphia 20, Pa.

R-479 Naphthol for Lightfast Browns—Booklet describes new, straight, nonsubstantive naphthol, Naphthol AS-BN, for the continuous naphtholation of cotton and rayon piece goods in the dyeing of economical, fast-to-light browns. General Dyestuff Co., 435 Hudson St., New York 14, New York.

R-480 Softener, Lubricant, Napping Aid—Technical information available on softener, lubricant and napping aid for natural and synthetic fibers, yarns and fabrics. Nopco Chemical Co., Harrison, N. J.

R-481 Handbook on Methocel—Gives technical information and use data on family of methylcellulose ethers called Methocel. Organic Chemicals Sales, The Dow Chemical Co., Midland, Mich.

FIBERS AND YARNS

R-502 Fortisan-36, New Textile Fiber—Includes charts, diagrams, text, presents technical properties. Textile Sales Dept., Celanese Corp. of America, P. O. Box 1414, Charlotte, N. C.

R-503 Caprolan Nylon Heavy Yarns—Describes strength, long flex life and ready dyeability. Fiber Sales Dept., National Aniline Div., 261 Madison Ave., New York 16, N. Y.

(Continued Next Page)

New Low Cost TEXTILE PULLEY

adjusts speeds while running!

REEVES® *vari-spin drive*

new belt Field-tested, specifically designed 2″ rib belt. Flexible, high resistance to heat, oil and moisture. Long life under continuous rated load.

new base Low cost. Rugged welded steel. Minimum height. Easily adjustable.

● Speed settings in 2:1 range are accurately made in seconds —*while the frame is operating.*

A low cost unit, the compact 975-T features REEVES' exclusive "close grooving" for positive lubrication . . . free sliding shifting action.

Contact your nearest REEVES or RELIANCE representative, or write for complete details in Bulletin T37-G586-1.

for a wider speed range, 3 to 1, fixed center drive, write also for details on REEVES No. 16-10 Vari-Spin Drive . . . through 15 hp. Ask for Bulletin T37-G561-1.

REEVES PULLEY COMPANY
Division of **RELIANCE** ELECTRIC AND ENGINEERING CO.
Columbus, Indiana

HELPFUL BOOKLETS FREE!

R-506 Rayon—Mile By Mile—Details on how rayon is produced mile by mile, perfect inch by inch. Industrial Rayon Corp., 500 Fifth Avenue, New York 18, N. Y.

R-507 The Chemstrand Nylon Story—Describes the birth and growth of Chemstrand nylon. Chemstrand Corp., 350 Fifth Ave., New York 1, N. Y.

R-508 Color-Fast Fibers — Further information on "Coloray," Courtauld's solution dyed rayon staple which is a contribution to colorfastness in fabrics. Courtaulds (Alabama) Inc., 600 Fifth Ave., New York 20, N. Y.

RESEARCH—TESTING—LABORATORY

R-601 Testing Instruments—Descriptions of 37 instruments for testing textiles. Custom Scientific Instruments, Inc., 541 Devon St., Kearney, N. J.

R-602 Metal Detector — Spot troublemakers before they harm equipment or fabrics. Radio Corp. of America., Dept. S-271, Building 15-1, Camden, N. J.

R-603 Shadograph Weighing Devices —Pictures and information on various types of scales. Exact Weight Scales Co., Columbus 8, Ohio.

R-604 Evenness Tester—Details on taking the guess out of quality control. Uster Corp., 2516 Wilkinson Blvd., Charlotte, N. C.

R-606 Strobotac — Measures speed of rotating, reciprocating or other cyclic motions. General Radio Co., 275 Massachusetts Ave., Cambridge 39, Mass.

R-607 Yarn Count Scale—Data sheet tells how direct-reading instrument provides fast, accurate method of determining yarn count number. Exact Weight Scale Co., Columbus, Ohio.

MANAGEMENT, PROCESS ENGINEERING CONSULTANTS, FACTORS

R-701 Factoring Service—Details on advantages of factoring, including information on general banking and pension plans. Trust Company of Georgia, Atlanta, Ga.

R-702 Beechcrafts At Work — Tells how Beechcraft executive airplanes can save time and money. Southern Airways Co., Atlanta Airport, Atlanta, Ga.

R-705 The Wonalancet Way — Deals with current problems in Textiles. Wonalancet Company, 128 Burke St., Nashua, N. H.

R-706 A Fair Day's Pay And In Return A Fair Day's Work — Outlines proper utilization of labor, material and equipment. American Associated Consultants, Inc., 250 Park Ave., New York, N. Y.

R-707 Non-Woven Fabrics— Booklet gives outline of nature and history of non-wovens and the manufacturing techniques of today. Booklet 56-219A, Chemical Div., Goodyear Tire & Rubber Co., Akron 16, Ohio.

GENERAL PLANT OPERATION

R-801 Textile Brushes — Describes complete line of brushes for all departments of mill. S. A. Felton & Son Co., Manchester, N. H.

R-802 Belt Lacing Equipment — Includes prices, specifications, etc. Clipper Belt Lacer Co., Grand Rapids, Michigan.

R-804 "Motor Selector." — How to select a-c motors for specific application. Bulletin B-2103. Reliance Electric & Engineering Co., 24701 Euclid Ave., Cleveland 17, Ohio.

R-805 Everything For Floor Care — Describes scrubbing, waxing, polishing and mopping equipment as well as waxes, sealers, and cleansers. Finnell System, Inc., Dept. TI, 1300 East St., Elkhart, Ind.

R-806 Rotary Pressure Joints—Details on self-lubricating, self-adjusting, self-aligning joints. The Johnson Corp., Three Rivers, Mich.

R-807 Servicing "One-Shot" Lubricators—Describes high capacity spring discharge piston pump lubricator. Bijur Lubricating Corp., 151 W. Passaic St., Rochelle Park, N. J.

R-809 Wrap Up Lint Problems—Automatic lint filters remove lint from air, winds it into desposable roll. Bulletin 234, American Air Filter Co., 275 Central Ave., Louisville 8, Ky.

R-810 Stop Corrosion — Details on "Speed-Rex" paint for metal, wood and concrete. Truscon Laboratories, Box 69, Milwaukee Junction, P. O. Dept. T, Detroit 11, Mich.

R-812 Mechanical Power Transmission — Includes drawings, dimension, weights, prices, application. Dodge Mfg. Corp., Mishawaka, Indiana.

R-813 Metal Cleaner and Preserver —Describes Immunol, a neutral, nontoxic, non-flammable, odorless solvent that cleans, degreases and rustproofs metal. Harry Miller Corp., 4th and Bristol Sts., Philadelphia 40, Pa.

R-816 Leather Belting — Selection, installation, proper maintenance. Atlanta Belting Co., 508-510 Whitehall St., S. W., Atlanta, Ga.

R-817 One-Shot Lubricators—Details on pull-type semi-automatic lubricators. Bijur Lubricating Corp., 151 W. Passaic St., Rochelle Park, N. J.

R-818 Story of Nylon Bristle. — Tells of discovery and production, with special attention to "Tynex," a form of Nylon ideal for use in brushes. M. W. Jenkins' Sons, Inc., 444 Pompton Ave., Cedar Grove, N. J.

R-820 Floaxial Dial Scales — Explains mechanism and gives applications. Fairbanks, Morse & Co., 600 S. Michigan Ave., Chicago 5, Ill.

R-821 Modern Methods Of Textile Floor Maintenance — Complete details on taking care of mill floors. G. H. Tennant Co., 2530 N. Second St., Minneapolis 11, Minn.

R-822 Industrial Greases — Describes multi-purpose lithium soap industrial greases. Sinclair Refining Co., 600 Fifth Ave., New York, New York.

R-823 Roller Bearings For Textiles —How roller bearings are employed for more profitable textile production. Hyatt Bearings Div., General Motors Corp., Harrison, N. J.

R-824 Cylinders And Boosters — Complete listing of "in stock" equipment including proce and description. Miller Fluid Power Co., 2040 N. Hawthorne, Melrose Park, Ill.

R-828 Blower And Exhausters — Full description, including detailed drawings. Buffalo Forge Co., 490 Broadway, Buffalo 5, N. Y.

R-829 Paint Stripping Booklet — Explains simplified method of stripping paint. Oakite Products, Inc., 22 Thames St., New York 6, New York.

R-830 Air Filtration — Illustrates Auto-Airmat, a dry-type air filter. American Air Filter Co., Inc., 275 Central Ave., Louisville 8, Ky.

R-832 Drinking Fountains & Coolers —Description of all models, dimensions, illustrations. Halsey W. Taylor Co., Warren, Ohio.

R-833 Textile Leathers Catalog — Characteristics and advantages of "Tannate" leathers. J. E. Rhoads & Sons, 2100 W. Eleventh St., Wilmington, Del.

R-834 Catalog Of Needle Bearings — Design, application for five types of needle bearings. The Torrington Co., Torrington, Conn.

R-836 Metered Lubrication — Points up advantages of central lubrication systems. Bijur Lubricating Corp., Rochelle Park, N. J.

R-837 Service Procedure For Ball Bearings—Helpful manual shows how to increase life of ball bearings. New Departure Div., General Motors Corp., Bristol, Conn.

R-839 Lubrication Of Electric Motors —How to lubricate and clean ball and roller bearings. New York & New Jersey Lubricant Co., 292 Madison Ave., New York 17, New York.

R-840 Ball Bearings For Textile Machinery — Bearings for all phases of textile processing. The Fafnir Bearing Co., New Britain, Conn.

R-841 Lubrication Of Bearings — Helpful list of do's and don'ts to prolong bearing life. New York & New Jersey Lubricant Co., 292 Madison Ave., New York 17, New York.

LOCKWOOD GREENE PROJECTS IN...

WOOL PROCESSING

Lockwood Greene's work, originating in 1832 with the design of textile mills, amounting to a present total of around one billion dollars in value, now includes the first of two wool processing plants in the Southeast, here shown, for the world's two largest wool processing firms.

Wellman Combing Co., Johnsonville, S.C.
This plant, the first wool processing plant in the Southeast, and owned by Nichols and Company, Inc. of Boston, the largest wool treatment concern in the country, recently went into production. It has a capacity of 20 million pounds of grease wool per year, and is planned for enlargement to four times that capacity.

CONTINUOUS MANAGEMENT SERVICES FROM SITE SELECTION TO PLANT COMPLETION

LOCKWOOD GREENE ARCHITECTS • ENGINEERS

BOSTON 16, MASS. 316 Stuart Street
NEW YORK 17, N.Y. 41 East 42nd Street
SPARTANBURG, S.C. Montgomery Building

OVER A CENTURY OF INDUSTRIAL PLANT EXPERIENCE • BROCHURE AVAILABLE UPON REQUEST

FORGOTTEN SOMETHING?

If it's time to renew your subscription to TEXTILE INDUSTRIES or if you want to enter a new subscription . . . . use the handy coupon below.

W. R. C. Smith Publishing Co.
Dept. T-12A
806 Peachtree St., N. E.
Atlanta 8, Georgia

Please renew / enter my subscription to Textile Industries for two years.

Name _____

Title _____

Company Name _____

Address _____

City _____

State _____

☐ **Enclosed find $3.00** ☐ **Bill me for $3.00**

(Foreign rates on request)

"What You Want When You Want It"

WONALANCET

PERUVIAN TANGUIS COTTON

WONALANCET COMPANY

3240 Peachtree Road, N. E., Atlanta, Georgia
and 128 Burke Street, Nashua, New Hampshire

HELPFUL BOOKLETS FREE!

R-842 Textile Mill Cleaning Guide — Methods and means of proper cleaning and maintenance. Oakite Products, 52 Rector St., New York 6, New York.

R-843 For Static Elimination — Eliminates static safely, simply and inexpensively. Simco Co., 980 Walnut St. Lansdale, Pa.

R-845 Cut Costs With Moyno Pumps — Describes "progressing cavity" pumps for mercerizing and sizing. Bulletin 30-TI. Robbins & Myers, Inc., Springfield, Ohio.

R-847 Lubricants For Textiles — Working samples of bearing lubricants, spindle oils, etc. Georgia-Carolina Oil Co., Box 101, Macon, Ga.

R-849 Detect, Extinguish Fires. — Describes portable and built-in extinguishers; smoke detecting and rate-of-rise fire detecting systems. Catalogue "P-40", Dept. "A", Walter Kidde & Co., Inc., Main St., Belleville 9, N. J.

R-850 New Lubricated Plug Valves—Semi-steel and steel lubricated plug line. The William Powell Co., 2525 Spring Grove Ave., Cincinnati 22, Ohio.

R-851 "Tank Talk"—Shows various types of elevated steel tanks. R. D. Cole Manufacturing Co., Newnan, Ga.

R-852 Cotton Mill Equipment — Traces pictorially the steps in processing raw cotton into finished cloth. Westinghouse Electric Corp., 511 Wood St., Pittsburgh 30, Pa.

R-853 Micro Switch Bulletin—Catalog of products includes prices, applications, etc. Micro Switch Div., Minneapolis-Honeywell Regulator Co. Freeport, Ill.

R-854 Roller Bearings For Textiles—How roller bearings can help production. Hyatt Bearings Div., General Motors Corp., Harrison, N. J.

R-855 Unit Heater — Data on the Herman Nelson horizontal and vertical units. American Air Filter Co., Inc., 215 Central Ave., Louisville, Ky.

R-856 Stainless Steel For Textiles—Applications and advantages of stainless textile equipment. Allegheny-Ludlum Steel Corp., Dept. TI-93, Oliver Bldg., Pittsburgh 22, Pa.

R-857 Finnell Combination Scrubber-Vac—Illustrated literature gives complete specifications and describes various methods of combination-machine-scrubbing, including method recommended for cleaning oily floors.—Finnell System, Inc., 1300 East St., Elkhart, Indiana.

R-861 "Vari-Pitch" Sheave Bulletin —Control by means of pitch diameter adjustment described. Allis-Chalmers Mfg. Co., Milwaukee 1, Wis.

R-862 Prevent Corrosion of Plain Steel — Describes special C-17 Pre-Krete, a hydraulic cement formula, designed to prevent corrosion or rust of plain steel vessels. Pocono Fabricators, Inc., Div. of Patterson-Kelley Co., Inc., East Stroudsburg, Pr.

R-863 Penetrating Wood Finish — Describes floor seals for textiles. E. I. Du Pont De Nemours & Co., Inc., Finishes Div., Wilmington, Del.

R-864 Certified Climate Air-Changer System — Describes use with direct humidification for partial or complete air conditioning, Parks-Cramer Co., Fitchburg, Mass.

R-868 Ridge Tool Prices—Capacities and weights included along with pictures. Ridge Tool Co., Elyria, Ohio.

R-869 Stainless Steel Fabrication — Information on ventilating and drying, slasher exhaust, and materials handling in stainless. Sims Metal Works, West Point, Ga.

R-872 Metal Conveyor Belts — Illustrates entire range of manufacture. Ashworth Bros., Inc., Metal Products Div., Fall River, Mass.

R-873 Rihco Humidifiers And Cooling Systems—Describes new atomizers to lessen air consumption in evaporative cooling systems. Aldrich Machine Works, P. O. Box 750, Atlanta, Ga.

R-874 Dynac Brake Motors—Electrical braking of a-c motors-roving, spinning, knitting. Westinghouse Electric Corp., Pittsburgh, Pa.

R-875 Textile Applications For "Scotch" Tape—Some good ideas on using "Scotch." Minnesota Mining & Mfg. Co., St. Paul 6, Minn.

R-877 Industrial Floor Finishes—16-page book contains specifications and descriptions of industrial floor finishes for textile use. Includes directions for application. Minnesota Paints, Inc., 1101 Third Street, South, Minneapolis, Minn.

R-878 HUMIDIFICATION BY GRADUVAC. Bulletin gives details on gravity type atomizer control system and tells how supply of water to atomizers is automatically regulated. Parks-Cramer Co., Fitchburg, Mass.

R-879 SWITCH IDEAS. "How Others Do It" is publication containing ideas submitted by plant engineers and electricians showing how they've used snap-action switches to increase production efficiency. Micro Switch, Div. of Minneapolis-Honeywell Regulator, Freeport, Ill.

MATERIALS HANDLING

R-901 Casters And Wheels—Casters and wheels for all applications. Darnell Corp., Ltd., 12000 Woodruff Ave., Downey, Calif.

R-902 Canvas Baskets — Complete line for textile use. W. T. Lane & Brothers, Poughkeepsie, N. Y.

R-903 Overhead Handling Equipment — Shows successful applications of monorail systems. American Monorail Co., 13106 Athens Ave., Cleveland 7, Ohio.

R-905 Conveyor Key Book—How to step-up production with modern conveying. Logan Co., 1115 Franklin St., Louisville, Ky.

R-906 How To Select A Lift Truck—Excellent means for price comparison between similar trucks. Hyster Co., 2902 N.E. Clackamas St., Portland 8, Oregon.

R-907 Corrugated Containers — Describes Multi-Unit and Bulk Container. Gaylord Container Corp., 111 N. 4th St., St. Louis 2, Mo.

R-909 Tramrail Engineering And Application — Data on how Tramrail Equipment can cut handling costs. Cleveland Tramrail Div., Cleveland Crane and Engineering Co., 1036 East 289th St., Wickliffe, Ohio.

R-910 How To Specify Packaging — Regulations on shipment, how to determine which package to use. Hinde & Dauch, Sandusky, Ohio.

R-911 New Lift Trucks—Shows latest trends in lift truck design. Hyster Co., 2902 N.E. Clackamas St., Portland 8, Oregon.

R-912 Materials Handling For Textiles—Shows how fibre trucks can increase efficiency, protect products. National Vulcanized Fibre Co., Wilmington 99, Del.

R-913 Continuous Power Conveyor—Complete information on Zig-Zag Conveyor. Richards-Wilcox Mfg. Co., Aurora, Ill.

R-914 Stresses On Overhead Tracks —Covers track peening, discusses stresses. Cleveland Tramrail Div., Cleveland Crane & Engineering Co., Wickliffe, Ohio.

R-915 Scientific Materials Handling —Describes various materials handling devices, includes pictures. Bennett Rose Co., Box 8, Roebuck, S. C.

R-916 Overhead Materials Handling —Treats twin fan ceiling cleaners and shock proof electrification as well. Louden Machinery Co., Fairfield, Iowa.

R-917 Little Packaging Library — Series of booklets covers the business of shipping in corrugated boxes. Hinde & Dauch, Sandusky, Ohio.

R-919 Improved Materials Handling —"Materials in Motion" describes use of fibre containers. National Vulcanized Fibre Co., 1056 Beech St., Wilmington, Del.

R-920 Trucks Doff, Store, Become Spooler Tray—Brochure tells how mobile boxes are being used as doff boxes, storage boxes, and spooler trays on Barber-Colman Spooler. Fisher Mfg. Co., Hartwell, Ga.

a Dixie Bearings, Inc. design for spinning frames . . . . in operation for two years without a breakdown!

The original bearings supporting the cylinders on the spinning frames at The Eastern Manufacturing Company, Selma, North Carolina failed regularly and often due to excessive lint and dirt. Dixie Bearings, Inc. engineers designed and had produced a new fixture which held our recommended and completely sealed bearing.

Eastern Manufacturing then converted their spinning frames to the Dixie fixtures and bearings. After nearly two years of continuous operation they have experienced no maintenance problems or bearing failures!

Dixie Bearings, Inc. sales engineers know textile mill equipment thoroughly. Our experience in converting machines from troublesome or plain bearings to proven anti-friction bearings is extensive. Our ability to serve the textile industry with replacement bearings is recognized throughout the South.

Call the branch nearest you for the latest "factory fresh" bearings and our complete bearing service NOW!

Providing bearing service in the South ➤ **DIXIE BEARINGS, INC.**

FLORIDA: Jacksonville • **GEORGIA:** Atlanta • **KENTUCKY:** Louisville • **LOUISIANA:** Baton Rouge • New Orleans
N. CAROLINA: Charlotte • Greensboro • **S. CAROLINA:** Greenville • **TENNESSEE:** Chattanooga • Kingsport • Knoxville • Nashville

and

in the North ➤ **BEARINGS, INC.**

OHIO: Akron • Canton • Cincinnati • Cleveland • Columbus • Dayton • Elyria • Hamilton • Lima • Lockland • Mansfield • Toledo • Youngstown • Zanesville
INDIANA: Ft. Wayne • Indianapolis • Muncie • Terre Haute • **PENNSYLVANIA:** Erie • Johnstown • Philadelphia • Pittsburgh • York
WEST VIRGINIA: Charleston • Huntington • Parkersburg • Wheeling • **NEW JERSEY:** Camden
NEW YORK: Buffalo, Balanrol Corp. • **MARYLAND:** Baltimore • **DELAWARE:** Wilmington

You are cordially invited

to visit our exhibit at the Southern Textile Exposition, Greenville, October 6 through October 10, featuring:

ABINGTON

CARD STRIPPERS

WASTE CONVEYORS

VACUUM CLEANERS

ROLASLIVUP

You are assured of a cordial welcome from our Executive and Sales personnel. We hope to see you at the Show!

ABINGTON TEXTILE MACHINERY WORKS

Plant:
North Abington, Mass.

Southern Sales Office:
Calhoun Towers
Greenville, South Carolina

Executive Offices:
19 Congress Street
Boston, Massachusetts

SUPPLIERS News
WHAT THEY ARE DOING

(Continued from page 58)

fice and laboratory space in Ardmore, Pa.

Mr. Froneberger
Bullard Clark

Mr. Mahon
Lunkenheimer

Mr. Hayden
American Enka

Mr. Cuddeback
Allis-Chalmers

Claude L. Hayden has been named to the newly-created position of general district sales manager of **American Enka Corp.** with headquarters at the firm's New York City offices.

E. T. Cuddeback has been appointed manager, general products division sales, southeast region by **Allis-Chalmers Manufacturing Co.** His headquarters are in Atlanta, Ga.

Vincent P. Mahon, formerly Houston, Tex., sales representative for **Lunkenheimer Co.** has been made branch manager at Boston, Mass.

L. L. Froneberger, Jr., has been appointed vice-president of **The Bullard Clark Co.** In his new capacity he is responsible for the supervision of sales activities in the South for the E. H. Jacobs Southern and Northern Divisions of the firm. He will continue to make his headquarters in Charlotte, N. C.

The Partlow Corp. has named the **Will Process Equipment Corp.** as exclusive agents for all Partlow products in Georgia and Eastern Tennessee. Headquarters for the territory are 890 Chattahoochee Ave., Atlanta, Ga.

WANT TO CATCH UP?

See MEADOWS at GREENVILLE SPACE 136

MEADOWS MANUFACTURING CO.
ATLANTA, GA.

MORTON

AUTOMATIC BALL-BEARING LOGGERHEAD

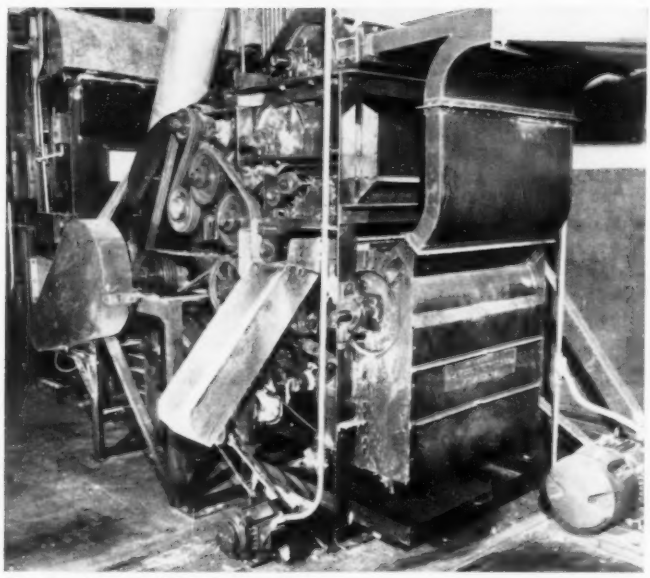
This ball-bearing loggerhead is designed to relieve excessive strain thrown against the head by unlocking it, thus preventing a breakdown.

It will increase picker room production. It will eliminate shut-downs. It will prevent stretched laps because of its ball-bearing, friction-free rollers.

Immediate delivery — guaranteed satisfaction!

MORTON MACHINE WORKS INC.
COLUMBUS, GA. U. S. A.

NEW SRRL OPENER-CLEANER



Davidson-Kennedy SRRL Opener-Cleaner
Installed in Osprey Mill, Bibb Mfg. Co.

- More Trash Removal
- Less Fiber Removal
- Cleaner Cotton from Low Grade Stock
- Less Waste
- No Fiber Damage
- Proven Production Results

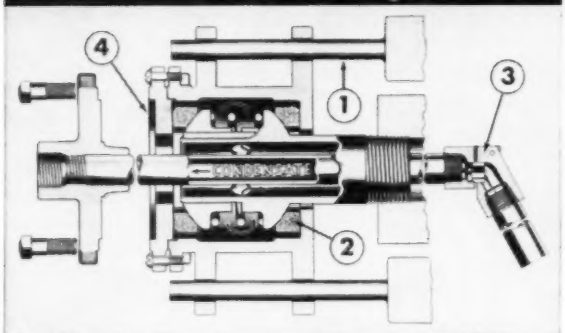
See Actual Mill Samples
Booth 102-A
GREENVILLE SHOW

Machinery Manufacturers Since 1888

DAVIDSON-KENNEDY CO.

1090 Jefferson Street, N. W. Atlanta, Georgia, U.S.A.

For service on Dry Cans and 30" Slasher Cylinders



Type LJSP with Syphon Elbow

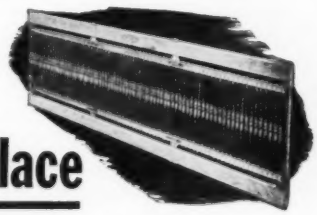
1. Support rods carry all the real weight. Sealing assembly "floats" freely inside. **2.** Seals without packing—needs no lubrication or adjusting. **3.** Syphon elbow replaces clumsy curved syphon pipe with two straight pipes, passes right through joint. **4.** Assembly plate holds parts in place when head is removed.

Johnson ROTARY PRESSURE Joints
First in the Textile Industry

Write for Catalog J-2002
Shows Johnson Joints for all needs, on dry cans, print cans, calenders, compressive shrinkage ranges, 5' and 7' cotton slashers, etc.

THE JOHNSON CORPORATION
815 Wood St., Three Rivers, Mich.

Harnesses Cleaned in Place Without Binding Warps



One Pennsylvania textile mill was troubled with heavy deposits of lint, sizing, and dust that built up on their reeds and harness assemblies. Solvent cleaning was ineffective because the sticky soils would drop down into the heddles and cause the warps to bind.

Then, the local Oakite Man suggested spraying the parts with a solution of Oakite Composition No. 12. Results were immediate: Soils and gummy deposits were thoroughly removed, and surfaces dried down smooth and clean with just the right "slip". Oakite Composition No. 12 provided temporary rust prevention, too, and greatly reduced subsequent build-ups of lint and sizing deposits. For more details, write Oakite Products, Inc., 26C Rector Street, New York 6, N. Y.

SPECIALIZED INDUSTRIAL CLEANING
OAKITE
MATERIALS · METHODS · SERVICE
SCIENCE

Export Division Cable Address: Oakite

Technical Service Representatives in Principal Cities of U. S. and Canada

You'll find

DELTA Air Freight costs less than you think!

Delta AIR LINES® AIR FREIGHT DOOR-TO-DOOR

Call Delta Air Lines, or write General Offices: Atlanta Airport, Atlanta, Ga.

MOST COMPLETE ALL-CARGO SERVICE TO AND THRU THE SOUTH

"H-W"® CONDITIONER

For Cotton, Synthetics, Woolen and Worsted Yarns

The "H-W" Conditioner is arranged to automatically Preheat, Condition, Exhaust or Dry.

You are cordially invited to inspect an "H-W" Conditioner at the 20th Southern Textile Exposition

Greenville, South Carolina

Booths 469 and 470A, Annex 7

October 6 to 10

THE INDUSTRIAL DRYER CORP.

STAMFORD, CONNECTICUT

GOLDBRICK SCHEMES

(from page 195)

THE GREAT strength of communism is the rosy promise of a better life that it holds out to desperately poor and utterly hopeless people. Its doctrines appeal to many intellectuals, but these are probably mostly of the kind that have been defined as people whose education has outstripped their intelligence. The really intelligent person is not likely to be taken in by anything which is as obvious a fraud as communism. It is the poor and hopeless who are charmed by the siren song of the communist spellbinder who promises everybody the more abundant life at someone else's expense.

It offers to these poor people a new, materialistic, godless religion which offers to provide *now* the good things they desire, instead of just promising something better in a future life. It pretends that all men are entitled to equality of income from the state coffers.

The fatal weakness of communism which must always destroy it in time is this same fact that it is a materialistic religion which promises blessings right now instead of hereafter. It is painfully obvious that no one ever knows whether the promises of most religions are ever met or not, but it is equally obvious that anyone may see whether the promises of communism are realized, and unless the system can make good on its promises within a reasonable length of time, it falls to pieces and its adherents drift away.

To hold the system together, and to prevent this drift of the adherents, there is no possible recourse but the most ruthless and brutal tyranny. Only the most gullible persons would endlessly cling to a political or economic system which completely failed to make good on its glittering promises, so the disillusioned adherents of communism must be kept in the

DEPENDABLE FLEXIBLE SOURCE OF MAJOR CHEMICALS FOR THE TEXTILE INDUSTRY

CARBON BISULFIDE exceeds 99.99% purity. Stauffer was the first—is still the largest—producer of this essential chemical. Shipped in tank cars of 8000 and 10,000 gallons from Bentonville and Roanoke, Va., Lowland, Tenn., LeMoyne, Ala., Chester, Pa., and Perry, O.; in 5, 10 and 55-gallon drums from LeMoyne and Richmond, Cal.

SODIUM HYDROSULFIDE in aqueous solution of high purity and highest practical concentration is shipped in tank cars of 8000 and 10,000 gallons from Chester, Pa., Roanoke, Va., Lowland, Tenn., and Richmond, Cal.; in 55-gallon drums from Chester and Richmond and in tank trucks from Richmond.

CAUSTIC SODA of 50% and 73% liquid Rayon Grade is shipped in tank cars of 8000 and 10,000 gallons from Niagara Falls, N. Y.

SULFURIC ACID is available in commercial grades of 77.67% to 122.5% H_2SO_4; as Oleum of 15% free SO_3 to 100% liquid SO_3, and as regenerated, water-white 98% H_2SO_4. Shipments are made in barges, tank cars, tank trucks, drums and carboys from many points in the South, Midwest and West.

For continuous, dependable, flexible supplies of textile chemicals...make your arrangements with Stauffer.

STAUFFER CHEMICAL COMPANY

380 MADISON AVENUE, NEW YORK 17, N. Y.
PRUDENTIAL PLAZA, CHICAGO 1, ILL.
636 CALIFORNIA STREET, SAN FRANCISCO 8, CALIF.
P. O. BOX 9716, HOUSTON 15, TEXAS

fold by force. We got a good example of how this force is applied during the Hungarian Revolution last year. The Hungarians had been surfeited with communism and were anxious to be rid of it. Probably a good many million Russians were just as anxious to get out from under the communist yoke, and if the Hungarians had been successful with their revolution, there is no telling what might have happened within Russia itself. It does not seem to be too difficult to persuade destitute people to embrace communism, but after finding that they are still destitute years later under the communist regime, they are unwilling to support such a system any longer. A religion that promises results right away is a dangerous thing to tamper with.

EXPERIMENTS in communism have been common enough, but there is no record of such an experiment being successful so long as the object of pure communism was pursued. The principal slogan of communism makes it abundantly clear why this must be the case. When the chief doctrine of a religion is "from each according to his abilities, and to each according to his needs," it is impossible to keep the adherents of such a faith contented. Ability is too scarce, and needs are too plentiful. Ability is nearly always something which is developed. Only an occasional genius has natural and irrepressible ability. Aptitudes through time and training can develop into out-

PROPER UTILIZATION
OF
LABOR
EQUIPMENT
MATERIALS

CAN MEAN A HEALTHIER PROFIT PICTURE FOR YOUR MILL

Our list of clients reads like the Blue Book of American Manufacture and in our files are many expressions as to our service and results accomplished, like the following:

"They have done an outstanding job for us. I consider them as the outstanding organization in this field."

*A GREAT FULLY INTEGRATED TEXTILE MILL**

*Name on request

WRITE FOR FREE COPIES
OF
★ LABOR & MANAGEMENT BENEFIT BY INDUSTRIAL ENGINEERING PRINCIPLES.

★ A FAIR DAYS PAY AND IN RETURN, A FAIR DAYS WORK.

AMERICAN ASSOCIATED CONSULTANTS INCORPORATED

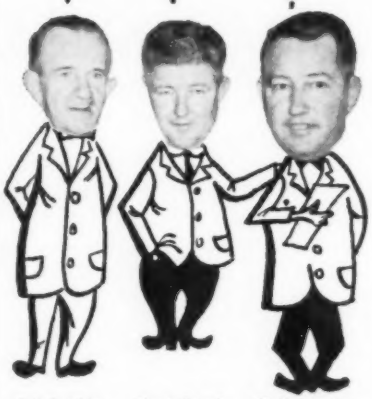
D. S. KEOGH, President

250 Park Avenue New York 17, N. Y.
Grant Building Pittsburgh, Pa.
206 Edificio Pestrada, Medellin, Colombia, S. A.

GIVE

THE UNITED WAY

See y'all in Greenville!



Bill Dobbins Newt Coggin Holt Coggin

G-C

NON-MELTING LUBRICANTS

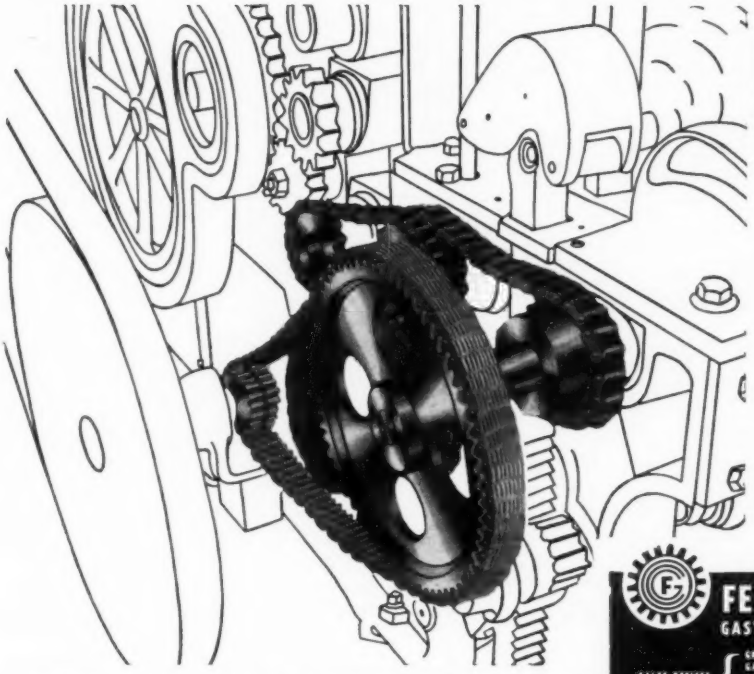
40 Years of lubricating experience has taught us how to produce quality lubricants for the textile industry.

Visit us at the Southern Textile Exposition in Greenville where many of these products will be displayed.

Booths 329-330

GEORGIA-CAROLINA OIL COMPANY
MACON, GEORGIA

CHAIN DRIVES FOR SACO-LOWELL PICKERS



BY FERGUSON

Fluted Calender Roll Chain Drive and Driving Shaft Chain Drive especially made for the Saco-Lowell Picker.

We make textile and industrial gears for every purpose to your satisfaction.

For information or quotation contact your nearest Sales Engineer or write, without obligation, P. O. Box 511, Gastonia, N. C.

MEMBER AMERICAN GEAR MANUFACTURERS ASSOCIATION

FERGUSON GEAR COMPANY
GASTONIA, NORTH CAROLINA • TEL. UN 4-2626

SALES OFFICES
GREENSBORO, N. C. — B. T. GLADDEN
GASTONIA, N. C. — R. W. LYNCH — TEL. 3-2462 — DENVER, N. C.
GREENVILLE, S. C. — HAROLD N. HARRISON — TEL. 3-4198
LA GRANGE, GA. — JOHN FERGUSON — TEL. 5040, P. O. BOX 486
SAVANNAH, GA. — HARVEY D. BLACK TEL. Adams 6-9479 2121 E. 40th ST.

TEXTILE RESEARCH

Courtaulds (Alabama) Incorporated, manufacturer of cellulose fiber, located on the Gulf Coast, a company with world wide organization, has vacancies in its Textile Research and Development Department for chemists, physicists, textile technologists and textile engineers to work both in the laboratory and in the field on problems related to fiber utilization, mainly, but not entirely in the textile industry. Here are challenging and rewarding opportunities for Bachelors, Masters and PhD's both with and without broad experience in the textile field. The vacancies cover a wide range of salaries, with liberal fringe benefits. Please send a detailed resume of your education and experience to Director of Industrial Relations, Courtaulds (Alabama) Inc., P. O. Box 1076, Mobile, Alabama.

Put your capital to work...

FULL TIME

Your capital can produce maximum profits only if you give it the chance for maximum turnover.

You can release capital tied up in accounts receivable and accumulated seasonal inventories through FACTORING — the time-tested method of stimulating capital turnover and of controlling the vital cash flow.

Let us tell you how your business can gain through factoring.

John P. MAGUIRE & COMPANY INC

370 4TH AVENUE, NEW YORK / MURRAY HILL 3-4141

AIR GUIDER'S

selvage finger points the way to these four-fold savings in hundreds of textile finishing plants:

SAVINGS NO. 1
Eliminates fabric spoilage; reduces damage and loss.

SAVINGS NO. 2
Cuts handling costs.

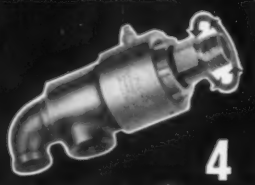
SAVINGS NO. 3
Reduces expensive equipment repairs and machinery down-time.

SAVINGS NO. 4
Provides textile operating economies that continue year after year.

- Guides within 1/8-inch from 1 to 400 ypm
- Maintains constant cloth alignment.
- Simple . . . no counter weights nor linkages.
- Handles woven and non-woven fabrics from lightest to #8 duck.

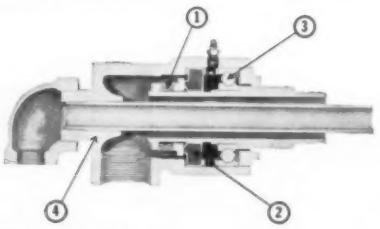
Put these profitable savings to use in your plant. Write for Mecho Air Guider catalog today.

The GUIDER Specialty Co. 431 W. Rock Avenue New Haven 15, Conn.



The ROTARY UNION'S 4 Vital Advantages*

Here is the "inside story" on why the Rotary Union gives better and longer service.



1—Heavy Monel Bellows automatically adjusts to pressure. Keeps sealing surfaces parallel and leakproof at all times. A completely mechanical seal.

2—Seal Ring—optically flat surface assures perfect seal.

3—Ball Bearing Construction. Precision, heavy-duty, radial thrust type. Minimizes friction and power consumption.

4—Unique Syphon Support prevents loosening, breaking, or falling off of syphon pipe.

The Rotary Union needs no mechanical maintenance or adjustments . . . a positive mechanical seal . . . minimizes downtime, labor, and replacements. Pipe Sizes 1/4" through 3". For full information contact our nearest office or write for Bulletin 700T

*Trade Name—Patented

"WHERE *Good Connections* COUNT"®

PERFECTING SERVICE COMPANY, 332 Atando Ave., Charlotte, N.C.

Baltimore—Buffalo—Camden, N. J.—Chicago—Cleveland—Los Angeles
New York—Providence—Hamilton, Ont.—Montreal—Toronto

See it at Booth 410 Southern Textile Exposition

standing abilities, and there must be some sort of reward to offer as an incentive for the development of these abilities. Any group of persons—small or large—which tries to make communism work will soon come up against the hard fact of this need for incentive.

Communists are fond of prattling about the "stupidity of competition," and yet there is probably no country on Earth where competition is as fierce or as bitter as in Russia, or where the state rewards more lavishly those successful competitors in fields which the state has declared to be important.

Under a system of real communism, the ordinary incentives which impel people toward excellence of performance are completely lacking. There will be an occasional instinctive humanitarian who is eager to devote his or her life to the common welfare, and there will also be the occasional fanatic who becomes completely absorbed in the theory of communism, and who is willing to sacrifice everything to the promotion of that theory. The vast majority of people, however, have the very natural and human desire to enjoy themselves the fruits of their own creative efforts. When most people find that the fruit of effort is taken away and bestowed upon some unworthy neighbor, it is most unlikely that they can maintain a worthwhile interest in producing. The tendency in such a society is always for practically everyone to feel that, since he is entitled to a living by the mere fact of having been born, and that someone else will supply the living, it is unnecessary for him to make any efforts of his own.

Therefore, into this socialist or communist Eden must come the ugly monster of compulsion. People who will not work because they have no incentive to urge them on must work under the taskmaster's lash or the imminent fear of death or prison.

MARX AND ENGELS fully recognized the obvious fact that only force could make a communist society work, and they frankly admitted that socialism or communism would require a dictatorship with absolute powers of compulsion to set up and maintain

TC
TENNESSEE CORPORATION

LIQUID
SULFUR DIOXIDE
HIGHEST QUALITY
SO_2

For EFFECTIVE REMOVAL of

Residual Chlorine

SO_2 accomplishes the following—Acidifies alkaline hypochlorite making it easier to wash out. Reduces chlorine to the harmless valence minus one (Cl^{-1})! Leaves fabric acid free.

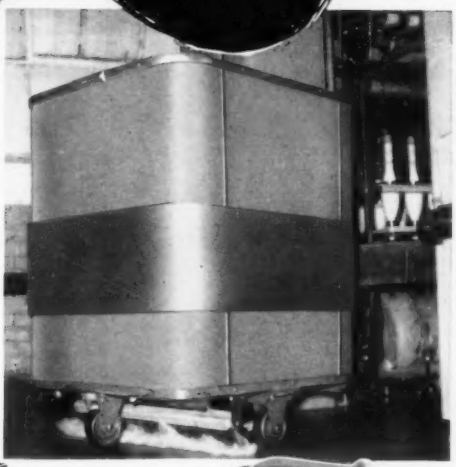
Tennessee's Liquid Sulfur Dioxide is also very effective as a reducing, bleaching and neutralizing agent, and pH control.

Available In:
- CYLINDERS
- TON DRUMS
- TANK TRUCKS
- TANK CARS

We would like to consult with you on the possibilities of Tennessee's Liquid Sulfur Dioxide in your processing.

TENNESSEE TC CORPORATION
617-29 Grant Building, Atlanta, Georgia

The New Excel Bonus-Sweeper



Cuts Sweeping Costs!

This NEW BONUS-SWEEPER will improve quality by keeping your floor 90% cleaner!

As operator is creeling, box is pushed along aisle, collecting fly and balling it up. When brush fills up, it *automatically* kicks up and leaves collected fly for sweeper to pick up on regular rounds.

By marking one end of the box and pushing the same marked end, it will protect three of the four casters on your box. The brush will eliminate lint and travelers that tangle up your casters, saving you time and money. The Excel Bonus-Sweeper can be installed on your present boxes. *Patents Pending.*

The Bonus Sweeper will cut your sweeping costs up to 35%!

SEE this new time-and-labor saving development by Excel at Booth 231, at the Southern Textile Exposition.

Representatives

N. W. Eurey
Paul Eurey
E. E. Eurey
Charles Eurey

EXCEL, INC.
Lincolnton, N. C. • Phone REgent 5-2012

DROP IN TO SEE US AT GREENVILLE

J. T. Boyd, J. L. Grantham, Bob Ballard and Jack Kibby issue you a cordial invitation to come by the GOLDENS' booth at the Greenville Show and say "hello".

GOLDENS', an old line textile supplier, will have a limited number of gray iron castings, power transmission devices and the famous GOLDEN-FAFNIR textile ball bearing applications on display. We certainly hope you'll stop and visit with us!

GOLDENS'
FOUNDRY & MACHINE CO.
600 - 12th STREET
COLUMBUS, GEORGIA

BOOTH NUMBER
268
AT THE
SOUTHERN TEXTILE EXPOSITION

GIVE
THE UNITED WAY
to: UNITED FUNDS
COMMUNITY CHESTS

their system. They fondly hoped, however, that after a number of generations of communism, they could eradicate the normal and probably instinctive desire for people to act as individuals and keep what they produced for their own benefit and that of their families. They and their successors as leaders of the socialist or communist faith believed in the possibility of creating a mass-man, and Lenin and his successors, with absolute authority to do as they pleased, made some interesting experiments with the problem of developing this mass-man. At one time they tried to wipe out family life in Russia and women were socialized in the hope that family ties would disappear and everyone would be simply a son or daughter of the state, owing allegiance to nothing but the state. This adventure seems to have ended in utter failure. People want to be people, and not robots.

Perhaps some day a socialist system can be made to work, but it seems reasonably certain that an entirely different type of human being must be developed before socialism in its more advanced stages like communism could ever be successful. The socialists had many good ideas, and large numbers of these have been adopted by nations which are violently opposed to socialism in general. There is no reason why socialists and communists can't have good ideas as well as other people. It is the means which they advocate to carry out these good ideas that run counter to the most deeply rooted instincts of human beings.

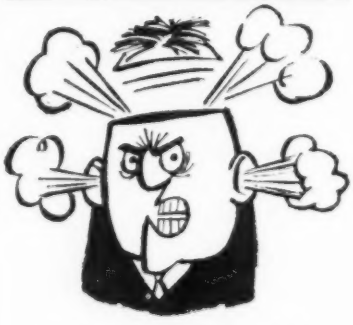
Any honest attempt to set up a socialist regime in which each is to be provided for according to his needs will soon be frustrated by the fact that there are large numbers of persons with urgent needs and little if any capacity for producing the income necessary to satisfy these. The socialist state

AVOID
SPINNING ROOM
DISRUPTION!

There are many, many reasons and causes for machine failure presenting the costly problem of "Down-time". Some of these every day problems are unforeseen - - - BUT

the foresight of . . .
ANDERSON SHIELDS
will reduce . . .
CHIPPING — SPLITTING
BREAKING
of your . . .
SPOOLS AND BOBBINS

TEXTILE
SHIELD CO., INC.
LAWRENCE, MASS., U. S. A.



DON'T BLOW YOUR TOP

See
MEADOWS
at
GREENVILLE
SPACE 136

MEADOWS MANUFACTURING CO.
ATLANTA, GA.

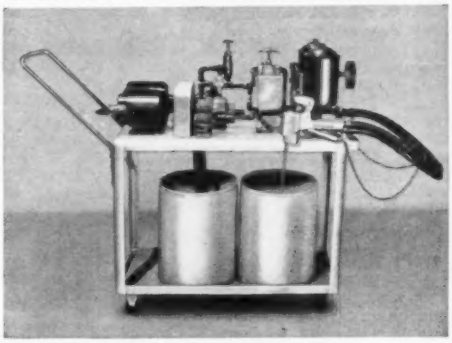
Greater Economy & Trouble-Free Performance With The New Improved

Wicaco Spindle Oiling Machine

The all-new Wicaco Spindle Oiling Machine fulfils the popular demand for a more efficient and economical spindle oiler.

IT HAS THESE OUTSTANDING FEATURES

- ★ Smaller than previous models—it can go anywhere a man can walk.
- ★ Light weight—it can be pulled along narrow aisles easily.
- ★ Economical—lower first cost and inexpensive operation.
- ★ New style, improved filter system cleans old oil for reuse and longer life.
- ★ Greater efficiency—operates with as little as one gallon of oil, filters the old oil and returns it for further use, or flushes out the old oil and replaces it with all new oil.
- ★ Complete flexibility—different oils may be used interchangeably by simply switching oil containers.
- ★ New filter gauge tells when filters need changing.
- ★ Relief valve permits full control of pressure from 0 to 35 lbs.



ORDER ONE TODAY
AND SEE HOW IT WILL IMPROVE
***YOUR* MAINTENANCE OPERATION**

WICACO MACHINE CORPORATION

Designers and Manufacturers of Precision Machinery and Parts Since 1868
4800 Stenton Avenue, Wayne Junction, Philadelphia 44, Pa.

DORNSFIELDS' PATENT

ATLAS BRAND

EMERY FILLET

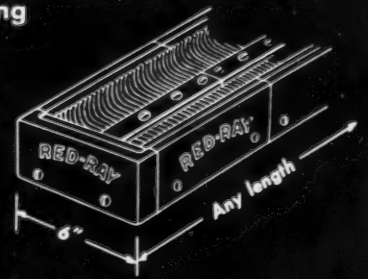
STOCKED BY
THE PRINCIPAL MILL SUPPLY HOUSES AND CARD MAKERS

RED-RAY

Infra-Red Gas Burners

- Preheating
- Nylon Setting
- Tenter Frame Drying
- Setting Resins—Pigment Dyes
- Singeing

High Capacity
Compact
Low Cost



Write for further information

RED-RAY MANUFACTURING CO., INC.
318 Cliff Lane Cliffside Park, N. J.
Tel: WHitney 3-1000

THE SELIG COMPANY
ATLANTA • MIAMI • NEW ORLEANS
DALLAS • HOUSTON • KANSAS CITY

MAKER OF THE WORLD'S FINEST MAINTENANCE PRODUCTS FOR THE TEXTILE INDUSTRY

WILL BE IN

BOOTH 232

SELIG

MAIN BUILDING—SECOND FLOOR

TEXTILE HALL GREENVILLE

AGAIN THIS YEAR

FOR THE TWENTIETH CONSECUTIVE TIME

SELIG

must then either admit that its system has failed and that there must be a considerable distinction between what producers and non-producers are to receive, or it must somehow get rid of the non-producers.

Civilized people usually recognize the claim of the old, the infirm, and the incompetent, to some sort of maintenance at public expense where relatives are unable to take care of such people as a family responsibility. It is not expected, however, that these non-producers should live as well at public expense as the skilled workers who produce the real wealth of the country.

When the state undertakes to extort from the productive worker enough of what he produces to take care of the non-productive on the same basis as the productive, there will be such a tremendous incentive to become non-productive and enjoy a pleasant, easy life without responsibility that something must be done to correct an intolerable situation. If everybody tries to loaf, everybody must starve, so the bright promises of socialism generally flit quickly out of the window and the hard realities of life come in at the door.

WE HAVE GONE part way down the socialist road in this country. The New Deal was a form of socialism, as was clearly shown by the fact that practically none of the promises in the 1932 Democratic Platform was kept, but nearly all of the promises in the Socialist Platform in the same year were carried out by the New Dealers. Norman Thomas, the head of the Socialist Party in the United States, was reported to have referred to TVA as true socialism. At several times, we referred in this magazine to the New Deal as "Socialism on Credit." We have not yet made any attempt to pay the debts of the New Deal, and it is not pleasant to imagine what will happen if we try to.

Our labor unions rest on a socialistic foundation. One of the cardinal tenets of labor union doctrine is that everybody is entitled to a good wage, regardless of his earning capacity. Within the union, the skilled productive workman must be down-graded so that the

Is this the World's Toughest Test For Brushes?

Jenkins' METLKOR Scrubber Brush

The DAREX Model ND Blanket Washer Unit

When Dewey and Almy Chemical Company developed their high-speed blanket printing process "DAREX VERSA-PRINT" a difficult problem arose. Colors picked up by the "DAREX" embossed blanket had to be removed with each turn around . . . colors that contained gums, resins, rubbers, etc. They had to be removed by solvents, detergents and high pressure water sprays at washing and drying speeds of 180 yards a minute. A special automatic machine, the "DAREX" washer was developed, in which seven specially designed Jenkins' METLKOR brushes are used.

CRUCIAL TEST FOR JENKINS' BRUSHES

"It is difficult to imagine conditions more severe than for the first three scrubbing brushes in this machine," states Mr. H. H. Bailey, Sales Manager of Printing Products Division of Dewey and Almy Chemical Co., Div. of W. R. Grace and Co. "Temperatures range from 40° to 212°F. Vapors range from saturated steam to mixtures including high percentages of mineral and organic solvents, caustics and acids. At speeds up to 1300 rpm the brushes must not vibrate. Jenkins' brushes are more than equal to these requirements and provide long and satisfactory life."

Specify Jenkins' METLKOR . . . the original . . . the best Metal-Core Brush

METLKOR®

CYLINDER BRUSHES

and LIFEWOOD® WOOD BACKED BRUSHES

M. W. JENKINS' SONS, INC.

— Serving Industry for 80 Years —

132 Pompton Ave., Cedar Grove
Essex County, N. J., CEnter 9-5150

now cut your desizing costs

DE SIZE *with* EX SIZE-T®

QUICK-SAFE-SURE

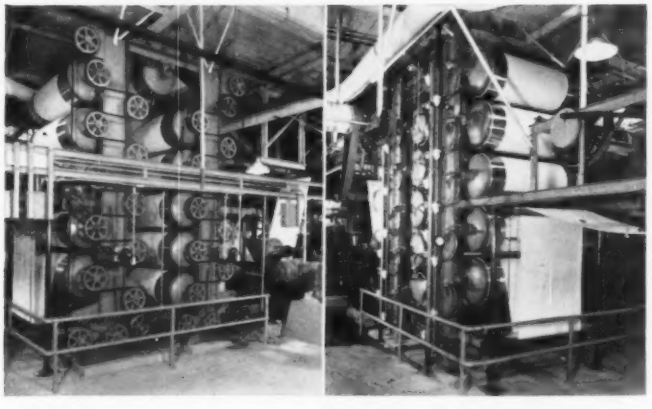
Exceptionally effective in high speed continuous desizing ranges due to its built-in heat stability.

For detailed information write...

PABST BREWING COMPANY
INDUSTRIAL PRODUCTS DIVISION
MERCHANDISE MART, CHICAGO 54, ILL.

PABST BREWERIES

G. S. HAND TACHOMETERS
and SPEED INDICATORS
for
MAXIMUM
PRODUCTION
IDEAL FOR MOTORS • SHAFTS • SPINDLES • LOOMS • TURBINES • FOR TEXTILE AND POWER PLANTS.
1% Accuracy for any range from 30 to 100,000 RPM or surface speed. Antimagnetic durable mechanism. Efficient repair service at moderate charges.
WRITE FOR ILLUSTRATED FOLDER
GEORGE SCHERR CO., Inc.
200L LAFAYETTE STREET • NEW YORK 12, N.Y.



STAINLESS STEEL DRY CANS

Many types of wet finishing equipment, ASME coded or uncoded cans for vertical or horizontal arrangements—new light weight designs with belt or chain drive mean lower horse power requirements and longer bearing life.

These cans feature flanged and dished steel heads. Framework is of heavy structural steel channel. Cans are mounted on ball bearing housings. Write or call for details today!

GREENVILLE STEEL & FOUNDRY CO.
GREENVILLE, S. C.
PHONES; CEDAR 5-0461, 2, 3, 4

unskilled, unproductive man can get more than he earns, simply because he needs it. It is therefore the unproductive, insecure worker who forms the backbone of the union, just as it is the proletariat which always forms the backbone of socialism and communism everywhere.

Just as socialism and communism promise to loot the rich to uplift the poor, the labor unions have either got to loot those within their ranks who are capable of earning much higher than average wages, or loot the general public. They generally wind up doing both. The labor unions have the typical socialist and communist attitude toward competition, and vigorously contend that it should be wiped out as far as labor union members are concerned. They hold that if one group of working men decides to ask an exorbitant price for its labor, all other working people should join in the same demand, and that it is a sinful thing for one worker to offer to do a job cheaper than another one will do it. Labor union members are supposed to constitute an elite group, something like the members of the Communist Party in Russia, supported by the less fortunate persons who do not live within the charmed circle.

Our agriculture has been extensively socialized under the "to each according to his needs" doctrine. Millions of farmers in the United States are now literally wards of the government, and fearfully contend that without artificial supports they would perish.

Socialism has so far proved to be an idealistic scheme to create a Utopia, which winds up as an ordinary tyranny, and those who believe in the American System, which has so completely proved its ability to create prosperity and happiness, think that the less we have to do with socialism, the better for us.

DURANT DOFFMETER
ELIMINATE OVERRUNS
Warns operator or stops machine when run is completed. Yes — eliminates annoying underruns, too!
Model 3-DM
Alaska Gray and
Seal Brown finish
Specifically Designed
for LOOM APPLICATIONS
The Durant Doffmeter is a compact, predetermined counter designed to cut off the loom or signal when the preset number of yards is reached. Eliminates cut marks and waste ends by assuring uniform yardage . . . simplifies inventory control.
Present day high costs make the installation of Durant Doffmeters on every loom a practical money saving investment. Plan now . . . write or contact us for detailed information.
UNIFORM LENGTHS
Easy, accurate way to assure uniformity in lengths of cloth or yarn.
MAXIMUM PRODUCTION
A Durant Doffmeter takes the responsibility — operator can do other work.
DURANT MFG. CO.
1973 N. Buffum St., Milwaukee 1, Wis.
73 Thurbers Ave., Providence 5, R. I.
Representatives in Principal Cities
Send for Catalog No. 501
PRODUCTIMETERS
SINCE 1879
Count Everything

BIRCH BROS. INC. **248** TEXTILE HALL

The Ways and Means Committee of the National Association of Woolen and Worsted Overseers is shown at the recent meeting in Boston, Mass., when plans were laid for the 75th Anniversary convention to be held in Boston on November 7th and 8th. Seated, reading from left to right are: **Edward L. Kelton, Aaron Begum, Emil H. Tegtmeier, James J. Burns, Arthur L. Mullen, Miss J. E. Lagerquist.** Standing: **Fred J. Leibold, John B. Moran, George H. Tabor, Gregory L. Tite, Henry C. Laponsee, Thomas H. Newell, Joseph F. Nash, Francis D. Herbert, Hugh Miller, Russell L. Brown.**

(Continued from page 31)

Frederick B. Dent has been elected president of Mayfair Mills, Inc., Arcadia, S. C.

Fulton Bag and Cotton Mills, Atlanta, Ga., has appointed **Mark E. Johnson** to the position of cotton buyer. He replaces **F. M. Arthur** who has accepted another position.

OBITUARIES

Lincoln Baylies, 65, former president of the National Association of Cotton Manufacturers, Newton, Mass.

William H. Brinkley, 59, general sales manager, southern div., E. F. Houghton & Co.

John H. Chaplin, 64, board chairman of Veeder-Root, Inc., Hartford, Conn.

W. Hale Charch, 60, director of Du Pont's pioneering research laboratory, Chadds Ford, Pa.

Robert J. Freitag, 83, retired vice-president and treasurer of Steel Heddle Mfg. Co., Philadelphia, Pa.

Simon Gold, 59, president of Galen Mills, Inc., Lebanon, Pa.

Joseph H. Groce, 78, superintendent of the William F. Groce Mill, Inc., Selinsgrove, Pa.

Thomas Hampton Henderson, 81, a vice-president and director of Clinchfield Manufacturing Co., Marion, N. C.

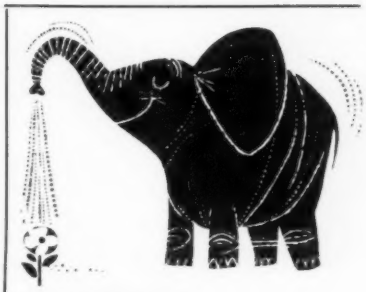
Grover C. Johnson, 73, retired hosiery mill executive, Goldsboro, N. C.

Tommie Franklin Johnson, 48, superintendent of Greige Knitting Co. div. of Glen Raven Mills, Burlington, N. C.

Thomas J. Kennedy, 68, retired vice-president and director of Berkshire Hathaway, Inc., Stroudsburg, Pa.

A. Lee McArthur, Jr., 54, director of transportation for Burlington Industries, Greensboro, N. C.

Edgar S. Stafford, 87, retired blanket manufacturer, Philadelphia.



LOOKING FOR SOMETHING See BIG?

MEADOWS

at

GREENVILLE SPACE 136

MEADOWS MANUFACTURING CO.
ATLANTA, GA.

AMERICA'S SPRING STEEL DISTRIBUTOR

We have had over fifty years experience furnishing steel for both builders of TEXTILE MACHINES and makers of replacement parts for KNITTING MACHINES.

Modern Slitting and Shearing Equipment

WARD STEEL CO.

87-G RINDGE AVE. EXTENSION
CAMBRIDGE 40, MASS.

PHONE—
UNIVERSITY 4-2460

AMERICA'S FINEST

POSITIVE-LATCHING BALL BEARING

BOBBIN HOLDER

- Easy tripping—Positive latching—Freest running—Bulletnosed
- Faster for Operator to change
- Stainless steel precision balls—Stainless steel races—No rust drag
- The only thoroughly sealed ball assembly in any B.H. Prevents lint drag even after 2 or 3 years
- Short travel—Low head req'd
- Wide smooth fingers prevent cutting of bobbin inner edges
- Serviced for life at assembly and double riveted
- Streamlined die cast brake (or stamped or wire brake avail.)
- Speednut slips through rail slot—doesn't have to slide from railend
- Shipped completely assembled
- Finest B. H. avail. at any price
- One size fits 8 x 4 thru 12 x 7 bobbins

HOLDER 44c
NUT 01c
BRAKE 05c
50c

Whitehead bobbin holders can be specified for your creels thru all the best creel mfgs.
Also available direct for thread boards

Patented, Manufactured and Guaranteed
WHITEHEAD DIE CASTING CO.
1198 ZONOLITE ROAD—ATLANTA 6, GA.

GET OFF THE HOOK

See MEADOWS at GREENVILLE SPACE 136

MEADOWS MANUFACTURING CO.
ATLANTA, GA.

Quality control

(from page 156)

have been reduced about 2 per cent.

Two processes of drawing are still used following combing. The replacement of the original conventional four-roll frames in the breaker drawing process by new, high speed, heavily weighted equipment, and the thorough reconditioning of the roving frames by almost 50 per cent, have been accomplished.

Roving was processed on 10" x 5" and 8" x 4" frames. When we began our quality control program, we were making six different sizes of roving, all of them processed twice on the roving frames. Only our finer yarn counts, 50s and above, are permitted this luxury today.

Early tests in the spinning department indicated that closer fiber control was essential to permit the drafts and speeds necessary for our quality and low-cost yarns.

All of our spindles were changed from conventional Casablancas to double-apron super-draft as a result of these tests. Vacuum end collection and octopus-type cleaners have been installed throughout the spinning rooms. Medium to large size rings, ball-bearing spindles with balloon control rings, lint-free type creels, and no-oil center-suspension top rolls were specified on the 15,000 replacement and 15,000 additional spindles added since 1953.

AS RAPIDLY as we could, we transmitted these policies into the ranks of the operators:

(1) By evaluating jobs and adjusting their base pay rates according to their required skills.

(2) By organized training projects, to teach old and new operators the best work methods from the standpoint of efficiency and quality. We utilized discussion techniques, colored movies, interplant visitations; and, most impressive from a quality standpoint, we bought a circular knitting machine and showed all our operators the disastrous effects of trying to knit yarns into which we had deliberately manufactured every yarn defect that could come from the respective operator's department.

(3) By upgrading the caliber of our incoming personnel. We began using the aptitude testing services of the Employment Security Commission.

(4) By giving praise where it was deserved, just as we had fixed responsibilities and had disciplined personnel for poor performances.

Our quality control program has

CLASSIFIED

BOBBINS—BOBBINS—BOBBINS

Our specialty is good used automatic loom bobbins. We also deal in twister and roving bobbins. Send us samples of what you need or what surplus bobbins you have.

CHARLES G. STOVER COMPANY
West Point, Georgia

Cut Your Scrap Removal Costs!

Write for Descriptive Literature
THE FIREWEL CO., INC. Baler Div.
3687 Broadway - Buffalo 25, N. Y.

FIELD TECHNICIAN

Position with unusual opportunity for a man with both mechanical inclination and a knowledge of textiles. This is an opportunity for a permanent career with a prime manufacturer of textile finishing machinery.

The work requires considerable travel for a young man not over 30 years of age. College graduate would be preferable.

Replies held confidential.—Box 37, Textile Industries, 806 Peachtree St., Atlanta 8, Ga.

WANTED

DYER AND FINISHER, WORKING FOREMAN UNDERSTANDING ALL OPERATIONS DYEING AND FINISHING OF SHEETINGS AND BURLAP. SMALL PLANT IN BROOKLYN. STATE EXPERIENCE AND SALARY. WRITE BOX 40, TEXTILE INDUSTRIES, 806 Peachtree St. N.E., Atlanta 8, Ga.

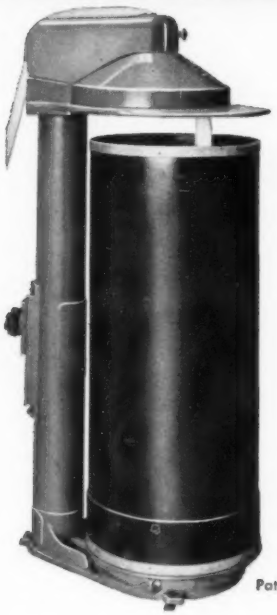
WANTED

EXTRACTOR, AMERICAN PERRY TYPE, 54 INCH DIAMETER, REMOVABLE BASKETS. WRITE BOX 41, TEXTILE INDUSTRIES, 806 Peachtree Street, Atlanta 8, Ga.

WANTED

SAMPLE PACKAGE DYEING MACHINE (STAINLESS) FOR 1 LB., 2 LBS., OR 5 LBS., AUTOMATIC OR MANUAL, FOR 5/8" TUBES. STATE AGE, MAKE, CONDITION, AND PRICE. REPLY TO BOX 42 TEXTILE INDUSTRIES, 806 PEACHTREE ST., N.E., ATLANTA 8, GA.

McDONOUGH UNIVERSAL CARD COILER



Patented

Finest COILER you can buy!

- Saves up to 33% card room labor
- Easiest to install and service
- Lowest maintenance cost
- Takes less floor space
- Built to last longer
- Ball bearings, hardened gears and rolls
- For cotton — wool — synthetics
- Head and base swivel
- Fits any make card
- Protected by US Patent No. 2,832,099. Other patents pending.

McDonough Universal is the best buy because of its design, precision and quality construction. Let us prove it in your mill. Free folder on request.

Since 1890

McDONOUGH

Power Equipment, Inc.

MACHINE & FOUNDRY DIVISION

McDonough, Georgia, U. S. A.

largely disposed of those troubles of 1953 and has become an indispensable, integral part of our standards department.

Executive views

(from page 200)

an inflation is to put a lot of people to work who otherwise would not have been put to work, and when the inflation subsides enough to throw these people back out of work, they become a new problem. So long as they didn't have any jobs to begin with they were not a problem. They lived off their families and managed to get along somehow, but after they had jobs and spending power, they seemed to become a government responsibility, and the extent of this responsibility is somewhat frightening.

The administrators of unemployment benefit funds have ruled in some cases that a man is perfectly justified in throwing up his job and going on relief if relief will pay him more than the job. This is certainly socialism with a vengeance, when a man is deliberately encouraged to loaf because his fellow citizens can be forced to support him in idleness even though he is perfectly capable of getting and holding a job. Assumption by the government of the responsibility for feeding every unprincipled loafer will surely cause more inflation.

Our entire national economy for 25 years has been based on inflation and it is reasonably certain that we are going to keep on that basis. No matter who was responsible for these ruinous inflationary policies in the first place, neither major party is going to risk the depression which will surely come with the abandonment by the government of these policies.

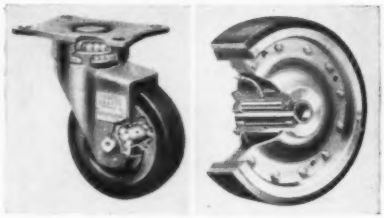
Maybe we can go on as we have gone, creating enough inflation to rob the thrifty as fast as they can save money, to give to the shiftless to put in circulation, and keep the thrifty saving it. Maybe we can't. Maybe in another generation or two there will be no thrifty, but only one vast mass of irresponsibles with their hands out for government largesse.

For QUALITY... SERVICE and AVAILABILITY -- *specify*

DARNELL

CASTERS AND WHEELS

• FOR EVERY NEED •



Worth reading about...

RUBBER TREADS . . . a wide choice of treads suited to all types of floors, including Darnelloprene oil, water and chemical-resistant treads, make Darnell Casters and Wheels highly adapted to rough usage.

RUST-PROOFED . . . by zinc plating, Darnell Casters give longer, care-free life wherever water, steam and corroding chemicals are freely used.

LUBRICATION . . . all swivel and wheel bearings are factory packed with a high quality grease that "stands up" under attack by heat and water. Zerk fittings are provided for quick grease-gun lubrication.

STRING GUARDS . . . Even though string and ravelings may wind around the hub, these string guards insure easy rolling at all times.

Send NOW for your copy of **FREE MANUAL**

Look in the **YELLOW PAGES** under **CASTER & WHEELS**

DARNELL CORPORATION, LTD.

DOWNEY (LOS ANGELES COUNTY) CALIFORNIA

60 WALKER STREET, NEW YORK 13, NEW YORK

36 NORTH CLINTON STREET, CHICAGO 6, ILLINOIS

ADVERTISER'S INDEX

A

Abington Textile Mchy. Works 266
Acme Steel Company 62
Adams, Inc. 192
Advertising Council, Inc. ..... *
Aldrich Machine Works 35
Allen Sons Wm. Co., Div.,
O. G. Kelley & Co. 243
Allied Chemical & Dye Corp. —
Nitrogen Div. ..... *
American Air Filter Co. ..... *
American Associated Consultants, Inc. ..270
American Cancer Society ..... *
American Lava Corp. ..... *
American Moistening Co. 7
American MonoRail Co., Inc. ..... *
American Red Cross ..... *
American Viscose Corp. 106
Andrews & Goodrich Division ..... *
Anheuser-Busch Incorporated 17
Antara Chemicals, General
Aniline & Film Corp. 16
Apex Chemical & Sales Corp. 248
Armstrong Cork Co. 72, 73
Arnold, Hoffman & Co. ..... *
Ashworth Bros., Inc. 220
Askania Regulator Co. ..... *
Atkinson, Haserick & Co. 29
Atlanta Belting Co. 237
Atlanta Brush Company 58
Atlantic Steel Co. ..... *
Avondale Mills, Inc. 235

B

Bagshaw & Co., Inc., W. H. 250
Bahnson Co. ..... Front Cover
Barber Colman (Textile Div.) 67
Barco Manufacturing Co. ..... *
Becco Chemical Division 104
Bendix Aviation Corporation
(Eclipse Machine Division) ..... *
Bijur Lubricating Co. ..... *
Birch Bros., Inc. 278
Booth Co., Benjamin 118
Borne Chemical Co. ..... *
Bouligny, Inc., R. H. 240
Branson Company ..... *
Buffalo Forge Co. 33
Buffalo Pumps, Inc. ..... *

C

Caledonian Dye Works ..... *
Carbert Mfg. Co. Div. 46
Carbic Color & Chemical Co., Inc. ..... *
Carolina Mchy. Co., Inc. 92
Carrier Corporation 87
Carter, Inc., A. B. 194
Celanese Corp. of America &
Subsidiary Cos. 190, 191
Chandler Machine Co. 250
Chemstrand Corporation (Acrilan) 184
Ciba Company, Inc. 58A
Clark, Cutler, McDermott Co. 103
Classified Ads 280
Cleveland Tramrail Division, The
Cleveland Crane & Engr. Co. ..... *
Clinton Corn Processing Co. 218
Clipper Belt Lacer Co. 8
Cobble Bros. Mchy. Co. 108
Cocker Mach. & Fdry. Co. 116
Cole Co., R. D. ..... *
Colgate-Palmolive Co. 76
Colton Chemical Co. ..... *
Cone Mills Corp. 68
Corn Products Sales Co. 86
Courtaulds 124
Curlator Corp. (Textile Div.) ..... *
Curtis & Marble Machine Co. 196
Custom Scientific Instruments, Inc. 248

D

Dalton Sheet Metal Co. ..... *
Darnell Corp., Ltd. 281
Dary Ring Traveler Co. ..... *
Davidson-Kennedy Co. 267
Davis & Furber Mach. Co. ..... *
Dayton Rubber Co. 100, 101
Delta Air Lines 268
Denman Textile Rubber Div. ..... *
Deublin Company 246
Diamond Crystal Salt Co. 60, 61
Diehl Mfg. Co. ..... Second Cover
Dixie Bearings, Inc. 265
Dobeckmun Co. 224
Dodge Mfg. Corp. 66
Dommerich & Co., L. F. ..... *
Dow Chemical Company ...22, 23, 37, 224
Draper Corporation 210, 211
Dronsfield Bros., Ltd. 275
Du Pont de Nemours & Co., Inc., E. I.
(Dyestuff Div.) ..... *
Du Pont de Nemours & Co., Inc., E. I.
(Electrochemicals Dept.) ..... *
Du Pont de Nemours & Co., Inc., E. I.
(Finishes Div.) ..... *
Du Pont de Nemours & Co., Inc., E. I.
(Textile Fibers Div.) 78, 79
Durant Mfg. Co. 278

E

Eastman Chemical Products, Inc. 217
Edda International Corp. 45
Eriez Co. 75
Esso Standard Oil Co. ..... *
Exact Weight Scale Co. 38
Excel Incorporated 273

F

Fabulized, Inc. ..... *
Fafnir Bearing Co. 50
Fairbanks, Morse & Co. ..... *
Fairtex Corporation ..... *
Fancourt & Co., W. F. 197
Felters Company 6
Ferguson Gear Co. 271
Fiber Controls Corp. 247
Fidelity Machine Co. ..... *
Fife Manufacturing Co. 42
Finnell System, Inc. 77
Fisher Mfg. Co. 40
Fletcher Works, Inc. ..... *
Foster Machine Co. 96, 97
Foxboro Company 88
Franklin Process Co. 201

G

Garland Manufacturing Co. 24
Gaston County Dyeing Machine Co. ..... *
Gates Rubber Co. 93
General Dyestuff Corp. ..... *
General Latex & Chemical Corp. 74
General Radio Co. 114
Georgia-Carolina Oil Co. 270
Gessner Co., David 226
Goldens' Foundry Co. 274
Goodrich Chemical Co., B. F. 83
Goodyear Tire & Rubber Co., Inc.
(Chemical Prod.) 5
(Industrial Prod. Div.) ..... *
Greenville Steel & Fdry. Co. 277
Griffin & Son, Ira L. ..... *
Gubelin International Corp. 36
Guider Specialty Co. 272
Gulf Oil Corp. ..... *

H

Harshaw Chemical Co. 19
Hart Products Corp. ..... *
Hartford Machine Screw Co. 26
Hayes Industries, Inc. ..... *
Hayssen Mfg. Co. 32
Herr Mfg. Co. 27
Houghton & Co., E. F. ..... *
Howard Bros. Mfg. Co. 80
Hubinger Co. 70
Hunter, Inc., James ..... *
Hunter Machine Co., James 188
Hyatt Bearing Division ..... *

I

Ideal Industries, Inc. 94
Industrial Dryer Corp. 268
Industrial Rayon Corp. ..... *
International Salt Co. 120

J

Jacobs Northern Div., E. H. 10
Jenkins Metal Shops, Inc. 15
Jenkins' Sons, Inc., M. W. 276
Johnson Bronze Co. 238
Johnson Corp. 99, 267

ADVERTISER'S INDEX

K

Kali Manufacturing Co. ..... *
Keever Starch Company 222
Kemp Mfg. Co., C. M. ..... *
Kennett Materials Handling Division
National Vulcanized Fibre Co. ..... *
Kidde Textile Mchy. Corp. 89
Koppers Company, Inc.,
Chemicals & Dyestuffs Div. 183

L

Lane & Bros., Inc., W. T. ..... *
Laurel Soap Mfg. Co. 212
Lenkotex Company 238, 239, 244, 245
Lester Laboratories, Ltd. 242
Lestershire Spool Division
National Vulcanized Fibre Co. 20
Lockwood Greene Engineers 263
Loper Co., Ralph E. 277
Ludell Mfg. Co. ..... *

M

Maguire & Co., Inc., John P. 271
Marshall & Williams Corp. 245
McCandless Corp., The ..... *
McDonough Power Equipment, Inc. 281
Mead Atlanta Paper Co. ..... *
Meadows Mfg. Co. 266, 274, 279, 280
Meese, Inc. ..... *
Merrow Machine Co. 241
Metlon Corp. 82
Metro-Atlantic Chem. Co., Inc. ..... *
Micro Switch Division 59
Miller Corporation, Harry 21
Milton Machine Works 48
Minneapolis-Honeywell Regulator
Co., Industrial Div. 84
Minnesota Paints, Inc. 41
Monticello Bobbin Co. 237
Moretex Chemical Co. ..... *
Morton Machine Works 266
Morton Salt Co. ..... *
Muller, Messrs. Franz 13

N

Nash Co., J. M. ..... *
National Aniline Division
Allied Chemical & Dye Corp. 91, 98
Fibers Dept. 255
National Business Publications, Inc. ..... *
National Ring Traveler Co. ..... *
National Starch Prod., Inc. 39
National Vulcanized Fibre Co. 20
New York & New Jersey Lubricant Co. . 44
Nitrogen Division, Allied
Chemical & Dye Corp. ..... *
Nopco Chemical Co. 85
North, Inc., Frank G. 232

O

Oakite Products, Inc. 267

P

Pabst Brewing Co. 277
Parks-Cramer Co. 216
Patterson-Kelley Co., Inc. ..... *
Penick & Ford, Ltd., Co. 105
Perfecting Service Company 272
Perkins & Sons, Inc., B. F. ..... *
Pioneer Heddle & Reed, Inc. 232
Pittsburgh Corning Corp.
(Foamglas Div.) ..... *
Pneumafil Corporation 47
Pocono Fabricators, Inc. ..... *
Powell Valves 122
Proctor & Gamble Distributing Co 180
Proctor & Schwartz, Inc. ..... *
Progressive Engineering, Inc. 107

R

Ragan Ring Co. 34
Red-Ray Manufacturing Co., Inc. 275
Reeves Division,
Reliance Elec. & Engr. Corp. 261
Reiner, Inc., Robert 202
Reliance Elec. & Engineering Co. 71
Reynolds Metals Co. 63
Ridge Tool Company 212
Robbins & Myers, Inc. ..... *
Roberts & Co., Associates, Inc. ..... *
Roberts Co. 9
Ross Engr. Corp., J. O. ..... *
Royce Chemical Co. ..... *

S

Saco-Lowell Shops 25, 214
Sandoz, Inc. 11
Sargent's Sons Corp., C. G. 18
Scharer Co. 102
Scheer Co., Inc., Geo. 277
Scholler Bros., Inc. 208
Scott Testers, Inc. 259
Selig Company 176
Semet-Solvay Petrochemical Div.,
Allied Chem. & Dye Corp. ..... *
Seydel-Woolley & Co. 43
Sheffield Corp. 250
Simco Company ..... *
Sims Metal Works ..... *
Sinclair Refining Co., Inc. 209
Sirrine & Co., J. E. 119
SKF Industries, Inc. ..... *
Smith Textile Apron Co. ..... *
Solvay Process Division, The
Allied Chemical & Dye Corp. 95
Sonoco Products Co. 81
Southern Airways Co. 112
Southern Shuttles Div. 55
Southern States Equip. Corp. 30, 31
Staley Mfg. Co., A. E. 90
Standard Brands, Inc. 257
Standard Chemical Prod., Inc. ..... *
Standard Oil Co. (Kentucky) ..... *
Stauffer Chemical Co. 269
Steel Heddle Mfg. Co. 55
Stein, Hall & Co., Inc. 234
Stodghill & Co. 236
Stowe-Woodward, Inc. 14

T

Takk Corporation 249
Taylor Co., Halsey W. ..... *
Taylor Instrument Companies ..... *
Tennant Co., G. H. ..... *
Tennessee Corp. 273
Terrell Mach. Co., Inc. ..... 284, Third Cover
Texas Co. 2
Textile Banking Co. 56
Textile Industries 263
Textile Machine Works 204
Textile Shield Co., Inc. 274
Textile Shops ..... *
Thomaston Mills ..... *
Ton-Tex Corp. ..... *
Torrington Co. 198
Trumeter Company 246
Truscon Laboratories 28
Trust Company of Georgia ..... *
Turbo Machine Co. ..... *
Tyer Rubber Company ..... *

U

U. S. Ring Traveler Co. 244
Universal Winding Co. 69

V

Veeder-Root, Inc. ..... Fourth Cover
Victor Ring Traveler Co. 57

W

Wallerstein Co., Inc. ..... *
Walton & Lonsbury Co. 12
Want Ads 280
Ward Steel Company 279
Warner & Swasey Co. 213
Watson & Desmond 230, 231
Watson Williams Mfg. Co. 229
West Point Fdy. & Mach. Co. 186, 187
Westinghouse Electric Corp.
Apparatus Division ..... *
Whitehead Die Casting Co. 280
Whitin Machine Works 51, 52, 53, 54
Whitinsville Spinning Ring Co. 249
Wicaco Machine Corp. 275
Wildman-Jacquard Co. 1
Wonalancet Company 263
Wyandotte Chemicals Corp. 64, 65, 259

Y

Yeomans, Inc. 102
Young Machine Co., F. A. 49

New TERRELL PRODUCTS TO BE IN OPERATION

at the Greenville Textile Show **ANNEX 3**

TERMACO

AUTOMATIC-TERMACO HOPPER FEEDERS — Revolutionary device—automatically feeds quills into Type L and Type K quill cleaning machines through semi-automatic Termaco Bobbin Feeders.

TERMACO BOBBIN FEEDERS — Semi-automatic device enabling one operator to feed two Type L or two Type K Bobbin Cleaning Machines.

TYPE L LOOM BOBBIN CLEANERS — The fastest and most modern quill cleaning machine made today—lowest quill cleaning costs—complete freedom from quill damage.

TERMACO AUTOMATIC CONVEYOR SYSTEMS — Delivers quills cleaned by Bobbin Cleaning Machines to storage bins and then automatically delivers quills from storage bins to quill hoppers.

TYPE M ROVING BOBBIN CLEANER — Returns on investments for Type M's average 6 months. No bobbin damage.

TERMACO LOOM PICKERS — Observe the new smooth light colored TERMACO pickers—regular price—life equals any rubberized fabric picker.

Schlafhorst SERVOLOOM AUTOCOPSER — This famous Quiller equipped with attachment to prepare tip bunches for the Draper Automatic Magazine.

LATEST HIGH SPEED AUTOCOPSERS — Quilling speeds up to 12,000 RPM. Boxing attachments for cottons, spuns, wools and worsted. Pinboard devices for filament yarns.

THE TERRELL MACHINE COMPANY, INC.

P. O. BOX 928 • 3000 SOUTH BOULEVARD
CHARLOTTE, NORTH CAROLINA

FIRST SHOWING

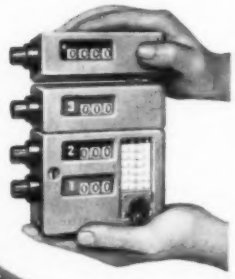
NEW SCHLAFHORST AUTOCOPSER
PREPARING PRECISION-MADE BOBBINS
for
NEW DRAPER AUTOMATIC FILLING MAGAZINES

SEE IT
IN OPERATION
at the
GREENVILLE TEXTILE SHOW
ANNEX 3

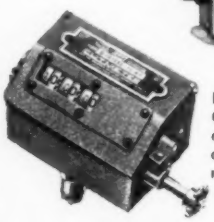
Imported by
AMERICAN SCHLAFHORST CO.
Sold and Serviced by
THE TERRELL MACHINE CO., INC.
CHARLOTTE, N. C.

NEW Double-Wheel Quick Reset Yardage Counter

See all the "Things that Count" in Booth No. 107



2-3-4 Convertible Counters for Looms, Frames and Knitting Machines.



Loom Cut Meters for Countrolling lengths of cloth woven, without cut marks. Prevent overruns and shortages.

Here's something *really* new in "things that count"... Veeder-Root's Quick Reset Yardage counter, Series 1522, equipped with double measuring wheels . . . *and positive, instant quick-lever reset.* Added feature — In-Line Reading.

This important new counter is rated at speeds up to 6,000 RPM or 8,000 CPM . . . is adaptable to many jobs in any type of textile mill—from cards to cloth room. Also available *with predetermining feature.*

See it at the show . . . together with all the other modern Veeder-Root Textile Counters.

Veeder-Root Inc.

"THE NAME THAT COUNTS"

Hartford 2, Connecticut

Hartford, Conn. • Greenville, S. C. • Altoona, Pa. • Chicago
New York • Los Angeles • San Francisco • Montreal

Offices and Agents in Principal Cities

Also the NEW V-R Electronic "Count-Pak"

Product of VR's Custom Electronic & Controls Division

Series 1661 shown is one of 3 models of this *complete electronic counting package* for use where long life, high speed and instant reset are required. Rated at 20,000 counts per minute.